Interference of Prime functions and Prime numbers distribution

Interference and non-interference between prime functions explain the distribution of prime numbers. We also show some cyclic paths, and some similitudes to interpret in a different way the Riemann Zeta function.

We created two parallel columns with the odd and even numbers from 1 to 500. And we created separate pair of columns for each prime numbers. For determining the prime numbers between 1 and 100 only the prime functions of 3, 5 and 7 are needed. We traced a wave function for each of those primes adding to the starting prime its same amount twice, in a periodic way. (For example, for the prime number 5, at the staring of a cycle, we add 5 and 5 to get the complete cycle ending in 15). To determine the length of each cycle for each prime function we count an N number of odd positions through the odd column, coincident with the value of the prime that rules such a function.

Inside of each cycle of the function of the prime 3 there is a strip with two odd numbers which is the critical strip where all primes will be placed. Some of them will be twin primes, as it happens with 11 and 13, or 17 and 19, and some of them will be single primes as it's the case of 23.

23 is not followed by a twin prime because when it comes to 25, the second cycle of the prime function 5 causes an interference in the fourth cycle of the function 3 in the position of the number 25. The number 25, so, although is inside of the critical strip of the fourth cycle is not a prime, it can be divided by 5. No other prime function interferes with 25, so 25 can only be divided by 5.

We represent the interference projecting a perpendicular dotted line from the number 25 of the function 5 to the number 25 of the function 3.

The first cycle of the prime functions different than 3 will not interfere with a critical strip of the function 3. And, without considering that first cycle to compute the further cycles, it seems the cycles that are a multiple of 3 would cause no interference on the critical strips of the function 3 either.

For example, when it comes to the function 5, its first cycle ending in 15 won't interfere with the function 3. Counting three more cycles on the function 5, we will arrive to 45 which won't cause interference either; the same will happen counting three more cycles arriving to 75, and counting three more cycles to arrive to 103.

| 99100 | 99 100 | 99 100 | 99 100 |
|--------|-------------|----------|---------------|
| 97) 98 | 97 98 | 97 98 | 97 98 |
| 9596 | 95 96 | 95 96 | 95 / 96 |
| 93 94 | 93 94 | 93 94 | 93 94 |
| 9192 | 91 92 | -9192 | 91 92 |
| 89 90 | 89 90 | 89 90 | 89 90 |
| 8788 | 87 88 | 87 88 | 87 88 |
| 8586 | 85 - 86 | 85 86 | 85 86 |
| 83) 84 | 83 84 | 83 84 | 83 84 |
| 8182 | 81 82 | 81 82 | 81 / 82 |
| 79 80 | 79 80 | 79 80 | 79 / 80 |
| 7778 | | 77 | -77 78 |
| 75 76 | 75 76 | 75 76 | 75 76 |
| 73) 74 | 73 74 | 73 74 | 73 74 |
| 71 72 | 71 72 | 71 72 | 71 72 |
| 6970 | 69 70 | 69 70 | 69 70 |
| 67 68 | 67 68 | 67 68 | 67 68 |
| 6566 | -6566 | -65 66 | 65 66 |
| 6364 | -6364 | -63 - 64 | 63 64 |
| 61) 62 | 61 62 | 61 62 | 61 62 |
| 59 60 | 59 60 | 59 60 | 59 60 |
| 57 58 | 57 58 | 57 / 58 | 57 58 |
| 5556 | -55-56 | -55 56 | 55 56 |
| 53) 54 | 53 54 | 53 54 | 53 54 |
| 51 52 | 51 52 | 51 52 | 51 52 |
| 49 50 | 4950 | 4950 | 49 50 |
| 47 48 | 47 48 | 47 48 | 47 48 |
| 45 46 | 47 48 | 47 48 | 45 46 |
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| 43 44 | 43 44 | 43 44 | 43 44 |
| 41 42 | 41 42 | 41 42 | 41 42 |
| 3940 | 39 40 | 39 40 | 39 40 |
| 37) 38 | 37 38 | 37 38 | 37 38 |
| 3536 | -35 | -3536 | 35 36 |
| 3334 | 33 34 | 33 34 | 33 34 |
| 31 32 | 31 32 | 31 32 | 31 32 |
| 29 30 | 29 30 | 29 30 | 29 30 |
| 27 28 | 27 28 | 27 28 | 27 28 |
| 2526 | -25 | -25 26 | 25 / 26 |
| 23 24 | 23 24 | 23 24 | 23 24 |
| 21 | -24 | 21 | -21 22 |
| 19 20 | 19 20 | 19 20 | 19 20 |
| 17 18 | 17 18 | 17 18 | 17 18 |
| 15 | -15 16 | 15 16 | 15 16 |
| 13 14 | 13 14 | 13 14 | 13 14 |
| 11) 12 | 11 12 | 11 12 | 11 /12 |
| 9 10 | 9 10 | 9 10 | 9 10 |
| 7 8 | 7 8 | 7 8 | 7 8 |
| 5 6 | 5 6 | 5 6 | 5 6 |
| 3 4 | 3 4 | 3 4 | 3 4 |
| 1 2 | 1 2 | 1 2 | 1 2 |
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| | | | |

In some cases, the interferences will affect to both the two odd numbers that are inside of a critical strip of the function 3. Those non-prime numbers are then non-prime twins. I bolded them in yellow in the diagrams below. The first non-prime twins are 119 and 121:

| 153 154 154 153 154 154 153 154 154 153 154 15 | 152 154 |
|--|---------|
| 151 152 151 151 | |
| | 151 152 |
| 149 150 149 150 149 150 149 150 149 150 149 150 149 150 149 150 149 150 149 150 | 149 150 |
| 147 148 147 148 147 148 147 148 147 148 147 148 147 148 147 148 147 148 147 148 147 148 147 148 | 147 148 |
| 145 146 145 146 145 146 145 146 145 146 145 146 145 146 145 146 145 146 145 146 145 146 | 145 146 |
| 143 144 143 144 143 144 143 144 143 144 143 144 143 144 143 144 143 144 143 144 | 143 144 |
| 141 142 | 141 142 |
| 139 140 139 140 139 140 139 140 139 140 139 140 139 140 139 140 139 140 139 140 139 140 | 139 140 |
| 137 138 137 138 137 138 137 138 137 138 137 138 137 138 137 138 137 138 | 137 138 |
| 135 136 135 136 135 136 135 136 135 136 135 136 135 136 135 136 135 136 135 136 | 135 136 |
| 133 134 133 134 133 134 133 134 133 134 133 134 133 134 133 134 133 134 133 134 | 133 134 |
| 131 132 131 132 131 132 131 132 131 132 131 132 131 132 131 132 131 132 131 132 | 131 132 |
| 129 130 129 130 129 130 129 130 129 130 129 120 129 130 <t< td=""><td>129 130</td></t<> | 129 130 |
| 127 128 127 128 127 128 127 128 127 128 127 128 127 128 127 128 127 128 127 128 127 128 127 128 | 127 128 |
| 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 | 125 126 |
| 123 124 123 12 | 123 124 |
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| 119 120 119 11 | 119 120 |
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| 113 114 113 114 113 114 113 114 113 114 113 114 113 114 113 114 113 114 | 113 114 |
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| 103 104 103 104 <t< td=""><td>103 104</td></t<> | 103 104 |

Examining how some prime functions interfere, we can also see a kind of path as well.

For example, the prime function 5 interferes on 25, 35, 55, 65, 85, etc. The difference between those interfered numbers oscillates between 10, 20, 10, 20, 10, etc

The prime function 7 interferes on 49, 77, 91, 119, 133, etc. The difference between those interfered numbers oscillates between 28, 14, 28, 14, 28, etc. (except in the cases of 203 – 161

and 259 - 217, because in those cases the missing numbers 175 and 245 are firstly interfered by the prime function 5; I'm only considering the functions that firstly create the interference when they are more than 1).

The prime function 11 interferes on 121, 143, 187, 209, 253, 275, 319, 341. The difference between those numbers always oscillate between 22, 44, 22, 44, etc.

The prime function 13 interferes 65, 169, 221, 247, 299, 377. The difference between those numbers is 104, 52, 26, 52, 78. It apparently does not follow a clear path, but 54+54 is equal 104 and 26 +78 are equal 104.

The prime function 17 interferes 289, 323, 391. The distance between those numbers are 34, 68.

Another path that seems to be followed by the interferences of the prime functions is that the first cycle never interferes with the function 3 because it's valley is going to be a multiple of 3. Without computing such a first cycle, the next cycle, that second one, will always interfere with the critical strip affecting the odd number placed below of the next odd number located outside of the critical strip (so, above of the next non relevant zeros);

The next cycle that would be for us the second one, will always interfere with the critical strip affecting the odd number placed above of the previous odd number located outside of the critical strip, so above of the previous non relevant zeros; and the next cycle, that will be in this computation the third one, will never interfere because its valley will be coincident again with the function 3 because it will be a multiple of 3.

| 49 | 50 | 49 | 50 | | 50 | 49 | 50 | 49 | 50 | | | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 |
|----|-------------------|-------------|---------------|-------------|---------------|------------|----------------|---------------------|----------------|--------------|-------------|------------|----------------|----|----------------|----|-------------|----|----|----|----|
| 47 | 48 | 47 | 48 | <u>-</u> | 48 | 47 | 48 | 47 | 48 | 47 | 48 | 47 | 48 | 47 | 48 | 47 | 48 | 47 | 48 | 47 | 48 |
| 45 | 46 | <u>-</u> 45 | - | 45 | | 45 | 46 | 45 | | 45 | | 45 | | | 46 | | 46 | 45 | 46 | 45 | 46 |
| 43 | 44 | 43 | 44 | Thi | | , with | | ıside 43 | | firs 43 | | ever 43 | interfer 44 | | ion rele 44 | | zeros 44 | 43 | 44 | 43 | 44 |
| 41 | 42 | 4 | 42 | 41 | 42 | 41 | 42 | 41 | 42 | 41 | 42 | 41 | 42 | 41 | 42 | 41 | 42 | 41 | 42 | 41 | 42 |
| 39 | 40 | 39 | 40 | 39 | 40 | 39 | 40 | 39 | 40 | 39 | 40 | 39 | 40 | 39 | 40 | 39 | 40 | 39 | 40 | 39 | 40 |
| 37 | 38 | 37 | 38 | 37 | 38 | 37 | 38 | 37 | 38 | 37 | 38 | 37 | 38 | 37 | 38 | 37 | 38 | 37 | 38 | 37 | 38 |
| 35 | 36 | 35 | 36 | 35 | 36 | 35 | 36 | 35 | 36 | 35. | 36 | 35 | 36 elevant | 35 | 36 | 35 | 36 | 35 | 36 | 35 | 36 |
| 33 | 34 | 33 | 34 | 33 | | 33 | _ | 33 | | 33 | | 33 | | 33 | | | 34 | 33 | | 33 | |
| 31 | 32 | 31 | 32 | 31 | 32 | 31 | 32 | 31 | 32 | 31 | 32 | 31 | 32 | 31 | 32 | 31 | 32 | 31 | 32 | 31 | 32 |
| 29 | 30 | 29 | 30 | 29 | 30 | 29 | 30 | 29 | 30 | 29 | 30 | 29 | 23 | 29 | 30 | 29 | 30 | 29 | 30 | 29 | 30 |
| 27 | 28 | 27 | 28 | 27 | 28 | 27 | 28 | 27 | 28 | 27 | 28 | 27 | 28 | 27 | 28 | 27 | 28 | 27 | 28 | 27 | 28 |
| 25 | 26 | 25 | 26 | 25 | 26 | 25 | 26 | 25 | 26 | 25 | 26 | 25 | 26 elevant | 25 | 26 | 25 | 26 | 25 | 26 | 25 | 26 |
| 23 | 24 | 23 | 24 | 23 | | 23 | | 23 | | 23 | | 23 | | | 24 | | 24 | 23 | | 23 | 24 |
| 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 | 21 | 22 |
| 19 | 20 | 19 | 20 | 19 | 20 | 19 | 20 | 19 | 20 | 19 | 20 | 19 | 20 | 19 | 20 | 19 | 20 | 19 | 20 | 19 | 20 |
| 17 | 18 | 17 | 18 | 17 | 18 | 17 | 18 | 17 | 18 | 17 | 18 | 17 | 18 | 17 | 18 | 17 | 18 | 17 | 18 | 17 | 18 |
| 15 | | 15 | 16 | 15 First | 16 cycle n | 15 ever | 16 interfer | 15 _{es. N} | 16 on relev | 15 /ant : | 16 zeros | 15 | 16 | 15 | 16 | 15 | 16 | 15 | 16 | 15 | 16 |
| 13 | 14 | 13 | 14 | 13 | 14 | 13 | 14 | 13 | 14 | 13 | 14 | 13 | 14 | 13 | 14 | 13 | 14 | 13 | 14 | 13 | 14 |
| 11 | 12 | 11 | 12 | 11 | 12 | 11 | 12 | 11 | 12 | 11 | 12 | 11 | 12 | 11 | 12 | 11 | 12 | 11 | 12 | 11 | 12 |
| 9 | 10 | g | 10 | 9 | 10 | 9 | 10 | 9 | 10 | 9 | 10 | 9 | 10 | 9 | 10 | 9 | 10 | 9 | 10 | 9 | 10 |
| 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 |
| 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 6 |
| 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 |
| 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| 3 | | 5 | | 7 | | 11 | | 13 | | 17 | , | 19 |) | 23 | 3 | 29 | 9 | 31 | ı | 37 | 7 |

This path seems to be repeated cyclically in every prime function, and is useful to determine if the prime numbers are going to be placed above or below of the critical line, but it would need further researches.

On the other hand, it raises the question about if these functions could be a way to represent in separate functions – as we can do with the wave functions that form light – the Rieman Zeta function $\zeta(s)$ that determines the order of Prime numbers.

The Riemann Zeta function provides a critical strip with a critical line in its middle next to which the non-trivial zeros that determine the position of prime numbers are placed. But the Riemann function works with complex numbers.

Here, we do not need complex numbers to determine the position and distribution of prime numbers but we use functions to represent them more clearly. But we can use the Riemann terminology to express it because we all are working on determining the order of prime numbers by using functions. So far, I've being using the Riemannian term "critical strip" on purpose.

| 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 |
|--------------|--------------------|-----------------------------------|-------|-------|-------|--------------|---------------------|-------|-------|-------|
| 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 |
| 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 |
| 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 |
| 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 |
| 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 erfere wit | 39 40 | 39 40 | 39 40 |
| 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 |
| 35 36 < | <u>35</u> 36. | 35_36_ | 35 36 | 35 36 | 35_36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 |
| 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | with the cri | 33 34 | 33 34 | 33 34 | 33 34 |
| 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 |
| 29 30 | 29 30 | 29 30 | 29 30 | 29 30 | 29 30 | 29 23 | 29 30 | 29 30 | 29 30 | 29 30 |
| 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 |
| 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 |
| 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 |
| 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 |
| 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 |
| 17 18 Cr | itical st 17 18 | <mark>rip in fu</mark> r 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 |
| 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 |
| 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 |
| | | rip in fur 11 12 | | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 |
| 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 |
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| 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 |
| 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 |
| 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 |
| 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 |
| 3 | 5 | 7 | 11 | 13 | 17 | 19 | 23 | 29 | 31 | 37 |
| | | | | | | | | | | |

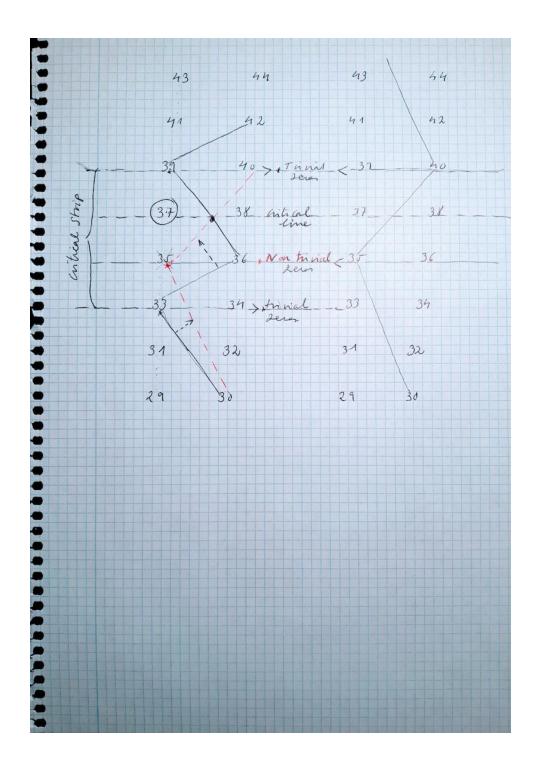
In this sense, a trivial zero in this context will be a zero projected on the function 3 from any other prime function when it will not affect the critical strip of the function 3 because it's on

its left or right limits. That happens when the odd number of the prime function different than 3 is divisible by 3.

A non-trivial zero will be a zero projected on the function 3 from any other prime function when it will affect the critical strip because it's inside of that strip affecting an odd prime that will not be divisible by 3 but will be divisible by the prime or primes number of the function/s that cause the interference.

In this sense it's obvious that all prime numbers are going to be placed inside of the critical strip, next to the critical line that is placed in its center. But we are presenting the critical strip in fragmented pieces instead of a continuous strip or line, because we are separating the different prime functions that participate in the distribution of the prime numbers.

Another approach to understand the meaning of the Riemann nontrivial zeros appears when projecting on the function 3 the prime function that participates in an interference on the critical strip. From that projection we see how there is a point of intersection between the cycle of the function 3 and the cycle of the prime function that interferes, and it seems that point of intersection coincides with the critical line where the prime number not affected by the interference is located. So, we can say the nontrivial zero has a real part, the part of the valley of the cycle of the prime function that interferes, and an imaginary part that raises from the point of intersection between the function 3 and the interfering prime function. For example, I drew it here for the function 5 that interferes on 35:



Note that we start from the pair number 30 which follows a negative path when going towards the valley of the cycle being reduced to cero when arriving to the highest valley of the cycle; that zero will be nontrivial for the cycle of the function 3 because 33 is outside of the

critical strip, and will be nontrivial for the cycle of the function 5 because it's placed inside of the critical strip. Once the cycle of the function 5 starts its positive trajectory to form the amplitude at the 40 point, it meets and intersects the negative trajectory of the cycle 3 that is going to form its valley at the 39 point, creating an imaginary point on the complex plane that connects both 3 and 5 functions and links the nontrivial zero related to the odd non-prime number with the prime 37.

But this makes sense to me only when inside of the critical strip there's only a prime number because in that case there will be a function interfering with its nontrivial zero inside of the critical strip of the function 3. But what would it happen when inside of a critical strip of the function 3 there are two consecutive primes, two twin primes? I think in that case there would not be inside of the critical strip a nontrivial zero because there won't be interferences from any other functions. (Maybe in that case we could speculate with considering as nontrivial zeros the points where those two prime numbers are placed, and we could get an imaginary point with the intersection of some other prime function without causing interference, existing a critical line with that imaginary part in the middle of both prime numbers; but in that case it seems that there would be two real 1 parts and one imaginary part, instead of a real 1/2 part and one imaginary part, as Riemann seems to have stated. I think the real 1/2 part is related to 1 of the two positions that are inside of any critical strip). In this sense the Riemann work would be incomplete when it comes to clarify how the Z function works for determining the prime numbers distribution.

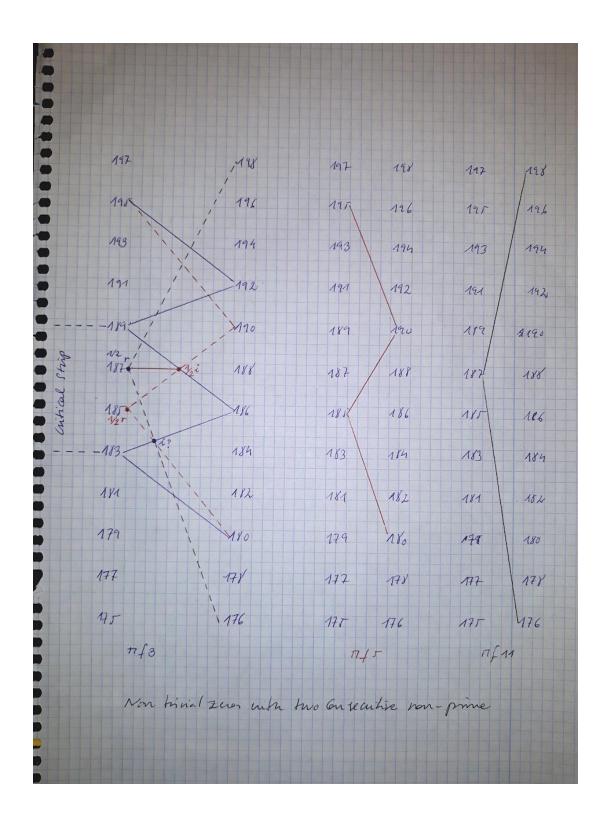
I would state then, that all trivial zeros are outside of a critical strip, that all nontrivial zeros are inside of a critical strip, and also that any prime number only can exist if it's placed inside of a critical strip. Each critical strip has space for two odd numbers. An odd number

interfered by a nontrivial zero inside of a critical strip will not be prime. When there's only a nontrivial zero inside of the critical strip, there will be a prime number in the position not affected by the nontrivial zero, the nontrivial zero will have a 1/2 real part (related to the odd nonprime number) an imaginary part (related to the prime number) in the complex plane. When two nontrivial zeros interfere (are placed) inside of the critical strip, no prime numbers will be placed there; and when there are no nontrivial zeros inside of a critical strip, two consecutive or twin prime numbers will be placed there.

Anyway, I think the main problem about the Riemann hypothesis is to conceptually understand what the Riemann critical strip and lines are, and what the trivial and nontrivial zeros of the Zeta function are. And I think this approach of working with separate prime functions could clarify those terms.

So far, we saw the nontrivial zeros of the function 3 have a real part one-half.

But there's also a case where the symmetry is not clear to me. In the next diagram I drew the nontrivial zeros of the non-prime -185 and -187 in a same critical strip of the function 3:



The odd non-prime - 185 and - 187 are affected by the interference of two different prime functions, 5 and 11, so they are non-primes twins.

The function 5 creates a - 1/2 nontrivial zero at the -185 point which is a non-prime number divisible by 5. Its imaginary counterpart is located at the complex plane just above the non-prime -187.

The function 11 creates a nontrivial zero at the -187 point which is a non-prime number divisible by 11. Its imaginary counterpart is not placed above any integer odd number.

(Note that at the number -183 there's not a nontrivial zero but a trivial zero (it's placed outside of the critical strip, just in the valley of a cycle of the function 3).

With this apparently broken symmetry can it be said then that the -1/2 real nontrivial zero of the non-prime -187 has a +1/2 imaginary counterpart? An affirmative answer would corroborate the Riemann hypothesis.

(Also notice that at imaginary counterpart of - 187 zero point a double intersection seems to be placed: that's an intersection point of the positive trajectory of function 3 and the negative trajectory of function 11, but also the negative trajectory of function 5. That imaginary point of multiple intersections is placed inside of the critical strip.)

Finally, I'd like to mention that with this way of represent prime numbers we can see clearly how the prime numbers follow a diagonal path that is not a straight line because it experiences deviations every time that an interference takes place, ascending one, two or more steps. Maybe it could be related to Riemann transformations: "Riemann's system had two classes of transformations: 'Schritt' and 'Wechsel'. A Schritt transposed one triad into another, moving it a certain number of scale steps".

| 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 1 2 | 1 2 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 1 2 | 1 2 |
| 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 1 2 | 1 2 |
| 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 1 2 | 43 4 |
| 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 |
| 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 |
| 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 |
| 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 |
| 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 |
| 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 |
| 29 30 | 29 30 | 29 30 | 29 30 | 29 30 | 29 30 | 29 23 | 29 30 | 29 30 | 29 30 | 29 30 | 29 30 | 29 30 |
| 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 |
| 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 |
| 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 |
| 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 |
| 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 |
| 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 |
| 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 |
| 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 |
| 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 |
| 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 |
| 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 |
| 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 5 | 5 5 |
| 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 |
| 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 |
| 3 | 5 | 7 | 11 | 13 | 17 | 19 | 23 | 29 | 31 | 37 | 41 | 43 |
| | | | | | | | | | | | | |

On these next diagrams I show the prime interferences for the primes between numbers 1 to 500:

Image 1/10

| 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 | 49 50 |
|--------------|-------|-------|-------|-------|-------|-------|--------------|--------------|-------|-------|
| 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 | 47 48 |
| 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 | 45 46 |
| 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 | 43 44 |
| 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 | 41 42 |
| 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 | 39 40 |
| 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 | 37 38 |
| 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 | 35 36 |
| 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 | 33 34 |
| 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 | 31 32 |
| 29 30 | 29 30 | 29 30 | 29 30 | 29 30 | 29 30 | 29 23 | 29 30 | 29 30 | 29 30 | 29 30 |
| 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 | 27 28 |
| 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 | 25 26 |
| 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 | 23 24 |
| 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 | 21 22 |
| 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 | 19 20 |
| 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 | 17 18 |
| 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 | 15 16 |
| 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 | 13 14 |
| 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 | 11 12 |
| 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 | 9 10 |
| 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 | 7 8 |
| 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 | 5 6 |
| 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 | 3 4 |
| 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 |
| 3 | 5 | 7 | 11 | 13 | 17 | 19 | 23 | 29 | 31 | 37 |
| | | | | | | | | | | |

Image 2/10

| 101 | 102 | 101 102 | 101 102 | 101 102 | 101 102 | 101 102 | 101 102 | 101 102 | 101 102 | 101 102 | 101 102 |
|-----|-----|---------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 99 | 100 | 99 100 | 99 100 | 99 100 | 99 100 | 99 100 | 99 100 | 99 100 | 99 100 | 99 100 | 99 100 |
| 97 | 98 | 97 98 | 97 98 | 97 98 | 97 98 | 97 98 | 97 98 | 97 98 | 97 98 | 97 98 | 97 98 |
| 95 | 96 | 95 96 | 95 96 | 95 96 | 95 96 | 95 96 | 95 96 | 95 96 | 95 96 | 95 96 | 95 96 |
| 93 | 94 | 93 94 | 93 94 | 93 94 | 93 94 | 93 94 | 93 94 | 93 94 | 93 94 | 93 94 | 93 94 |
| 91 | 92 | 91 92 | 91 92 | 91 92 | 91 92 | 91 92 | 91 92 | 91 92 | 91 92 | 91 92 | 91 92 |
| 89 | 90 | 89 90 | 89 90 | 89 90 | 89 90 | 89 90 | 89 90 | 89 90 | 89 90 | 89 90 | 89 90 |
| 87 | 88 | 87 88 | 87 88 | 87 77 | 87 88 | 87 88 | 87 88 | 87 88 | 87 88 | 87 88 | 87 88 |
| 85 | 86 | 85 86 | 85 86 | 85 86 | 85 86 | 85 86 | 85 86 | 85 86 | 85 86 | 85 86 | 85 86 |
| 83 | 84 | 83 84 | 83 84 | 83 84 | 83 84 | 83 84 | 83 84 | 83 84 | 83 84 | 83 84 | 83 84 |
| 81 | 82 | 81 82 | 81 82 | 81 82 | 81 82 | 81 82 | 81 82 | 81 82 | 81 82 | 81 82 | 81 82 |
| 79 | 80 | 79 80 | 79 80 | 79 80 | 79 80 | 79 80 | 79 80 | 79 80 | 79 80 | 79 80 | 79 80 |
| 77 | 78 | 77 78 | 77 78 | 77 78 | 77 78 | 77 78 | 77 78 | 77 78 | 77 78 | 77 78 | 77 78 |
| 75 | 76 | 75 76 | 75 76 | 75 76 | 75 76 | 75 76 | 75 76 | 75 76 | 75 76 | 75 76 | 75 76 |
| 73 | 74 | 73 74 | 73 74 | 73 74 | 73 74 | 73 74 | 73 74 | 73 74 | 73 74 | 73 74 | 73 74 |
| 71 | 72 | 71 72 | 71 72 | 71 72 | 71 72 | 71 72 | 71 72 | 71 72 | 71 72 | 71 72 | 71 72 |
| 69 | 70 | 69 79 | 69 70 | 69 70 | 69 70 | 69 70 | 69 70 | 69 70 | 69 70 | 69 70 | 69 70 |
| 67 | 68 | 67 68 | 67 68 | 67 68 | 67 68 | 67 68 | 67 68 | 67 68 | 67 68 | 67 68 | 67 68 |
| 65 | 66 | 65 66 | 65 66 | 65 66 | 65 66 | 65 66 | 65 66 | 65 66 | 65 66 | 65 66 | 65 66 |
| 63 | 64 | 63 64 | 63 64 | 63 64 | 63 64 | 63 64 | 63 64 | 63 64 | 63 64 | 63 64 | 63 64 |
| 61 | 62 | 61 62 | 61 62 | 61 62 | 61 62 | 61 62 | 61 62 | 61 62 | 61 62 | 61 62 | 61 62 |
| 59 | 60 | 59 60 | 59 60 | 59 60 | 59 60 | 59 60 | 59 60 | 59 60 | 59 60 | 59 60 | 59 60 |
| 57 | 58 | 57 58 | 57 58 | 57 58 | 57 58 | 57 58 | 57 58 | 57 58 | 57 58 | 57 58 | 57 58 |
| 55 | 56 | 55 56 | 55 56 | 55 56 | 55 56 | 55 56 | 55 56 | 55 56 | 55 56 | 55 56 | 55 56 |
| 53 | 54 | 53 54 | 53 54 | 53 54 | 53 54 | 53 54 | 53 54 | 53 54 | 53 54 | 53 54 | 53 54 |
| 51 | 52 | 51 52 | 51 52 ——— | 51 52 | 51 52 | 51 52 | 51 52 | 51 52 | 51 52 | 51 52 | 51 52 |

Image 3/10

| 153 154 | 153 154 | 153 154 | 153 154 | 153 154 | 153 154 | 153 154 | 153 154 | 153 154 | 153 154 | 152 154 |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 151 152 | 151 152 | 151 152 | 151 152 | 151 152 | 151 152 | 151 152 | 151 152 | 151 152 | 151 152 | 151 152 |
| 149 150 | 149 150 | 149 150 | 149 150 | 149 150 | 149 150 | 149 150 | 149 150 | 149 150 | 149 150 | 149 150 |
| 147 148 | 147 148 | 147 148 | 147 148 | 147 148 | 147 148 | 147 148 | 147 148 | 147 147 | 147 148 | 147 148 |
| 145 146 | 145 146 | 145 146 | 145 146 | 145 146 | 145 146 | 145 146 | 145 146 | 145 146 | 145 146 | 145 146 |
| 143 144 | 143 144 | 143 144 | 143 144 | 143 144 | 143 144 | 143 144 | 143 144 | 143 144 | 143 144 | 143 144 |
| 141 142 | 141 142 | 141 142 | 141 142 | 141 142 | 141 142 | 141 142 | 141 142 | 141 142 | 141 142 | 141 142 |
| 139 140 | 139 140 | 139 140 | 139 140 | 139 140 | 139 140 | 139 140 | 139 140 | 139 140 | 139 140 | 139 140 |
| 137 138 | 137 138 | 137 138 | 137 138 | 137 138 | 137 138 | 137 138 | 137 138 | 137 138 | 137 138 | 137 138 |
| 135 136 | 135 136 | 135 136 | 135 136 | 135 136 | 135 136 | 135 136 | 135 136 | 135 136 | 135 136 | 135 136 |
| 133 134 | 133 134 | 133 134 | 133 134 | 133 124 | 133 134 | 133 134 | 133 134 | 133 134 | 133 134 | 133 134 |
| 131 132 | 131 132 | 131 132 | 131 132 | 131 132 | 131 132 | 131 132 | 131 132 | 131 132 | 131 132 | 131 132 |
| 129 130 | 129 130 | 129 130 | 129 130 | 129 120 | 129 130 | 129 130 | 129 130 | 129 130 | 129 130 | 129 130 |
| 127 128 | 127 128 | 127 128 | 127 128 | 127 128 | 127 128 | 127 128 | 127 128 | 127 128 | 127 128 | 127 128 |
| 125 126 | 125 126 | 125 126 | 125 126 | 125 126 | 125 126 | 125 126 | 125 126 | 125 126 | 125 126 | 125 126 |
| 123 124 | 12/3 124 | 123 124 | 123 124 | 123 124 | 123 124 | 123 124 | 123 124 | 123 124 | 123 124 | 123 124 |
| 121 122 | 121 122 | 121 122 | 121 122 | 121 122 | 121 122 | 121 122 | 121 122 | 121 122 | 121 122 | 121 122 |
| 119 120 | 119 120 | 119 120 | 119 120 | 119 120 | 119 120 | 119 120 | 119 120 | 119 120 | 119 120 | 119 120 |
| 117 118 | 117 118 | 117 118 | 117 118 | 117 118 | 117 118 | 117 118 | 117 118 | 117 118 | 117 118 | 117 118 |
| 115 116 | 115 116 | 115 116 | 115 116 | 115 116 | 114 116 | 115 116 | 115 116 | 115 116 | 115 116 | 115 116 |
| 113 114 | 113 114 | 113 114 | 113 114 | 113 114 | 113 114 | 113 114 | 113 114 | 113 114 | 113 114 | 113 114 |
| 111 112 | 111 112 | 111 112 | 111 112 | 111 112 | 111 112 | 111 112 | 111 112 | 111 112 | 111 112 | 111 112 |
| 109 110 | 109 110 | 109 110 | 109 110 | 109 110 | 109 110 | 109 110 | 109 110 | 109 110 | 109 110 | 109 110 |
| 107 108 | 107 108 | 107 108 | 107 108 | 106 107 | 107 108 | 107 108 | 107 108 | 107 108 | 107 108 | 107 108 |
| 105 106 | 105 106 | 105 106 | 105 106 | 105 106 | 105 106 | 105 106 | 105 106 | 105 106 | 105 106 | 105 106 |
| 103 104 | 103 104 | 103 104 | 103 104 | 103 104 | 103104 | 103 104 | 103 104 | 103 104 | 103 104 | 103 104 |

Image 4/10

| 205 206 | 205 206 | 205 206 | 205 206 | 205 206 | 205 206 | 205 206 | 205 206 | 205 206 | 205 206 | 205 206 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 203 204 | 203 204 | 203 204 | 203 204 | 203 204 | 203 204 | 203 204 | 203 204 | 203 204 | 203 204 | 203 204 |
| 201 202 | 201 202 | 201 202 | 201 202 | 201 202 | 201 202 | 201 202 | 201 202 | 201 202 | 201 202 | 201 202 |
| 199 200 | 199 200 | 199 200 | 199 200 | 199 200 | 199 200 | 199 200 | 199 200 | 199 200 | 199 200 | 199 200 |
| 197 198 | 197 198 | 197 198 | 197 198 | 197 198 | 197 198 | 197 198 | 197 198 | 197 198 | 197 198 | 197 198 |
| 195 196 | 195 196 | 195 196 | 195 196 | 195 196 | 195 196 | 195 196 | 195 196 | 195 196 | 195 196 | 195 196 |
| 193 194 | 193 194 | 193 194 | 193 194 | 193 194 | 193 194 | 193 194 | 193 194 | 193 194 | 193 194 | 193 194 |
| 191 192 | 191 192 | 191 192 | 191 192 | 191 192 | 191 192 | 191 192 | 191 192 | 191 192 | 191 192 | 191 192 |
| 189 190 | 189 190 | 189 190 | 189 190 | 189 190 | 189 190 | 189 190 | 189 190 | 189 190 | 189 190 | 189 190 |
| 187 188 | 187 188 | 187 188 | 187 188 | 187 188 | 187 188 | 187 188 | 187 188 | 187 188 | 187 188 | 187 188 |
| 185 186 | 185 186 | 185 186 | 185 186 | 185 186 | 185 186 | 185 186 | 185 186 | 185 186 | 185 186 | 185 186 |
| 183 184 | 183 184 | 183 184 | 183 184 | 183 184 | 183 184 | 183 184 | 183 184 | 183 184 | 183 184 | 183 184 |
| 181 182 | 181 182 | 181 182 | 181 182 | 181 182 | 181 182 | 181 182 | 181 182 | 181 182 | 181 182 | 181 182 |
| 179 180 | 179 180 | 179 180 | 179 180 | 179 180 | 179 180 | 179 180 | 179 180 | 179 180 | 179 180 | 179 180 |
| 177 178 | 177 178 | 177 178 | 177 178 | 177 178 | 177 178 | 177 178 | 177 178 | 177 178 | 177 178 | 177 178 |
| 175 176 | 175 176 | 175 176 | 175 176 | 175 176 | 175 176 | 175 176 | 175 76 | 175 176 | 175 176 | 175 176 |
| 173 174 | 173 174 | 173 174 | 173 174 | 173 174 | 173 174 | 173 174 | 173 174 | 173 174 | 173 174 | 173 174 |
| 171 172 | 171 172 | 171 172 | 171 172 | 171 172 | 171 172 | 171 172 | 171 172 | 171 172 | 171 172 | 171 172 |
| 169 170 | 169 170 | 169 170 | 169 170 | 169 170 | 169 170 | 169 170 | 169 170 | 169 170 | 169 170 | 169 170 |
| 167 168 | 167 168 | 167 168 | 167 168 | 167 168 | 167 168 | 167 168 | 167 168 | 167 168 | 167 168 | 167 168 |
| 165 166 | 165 166 | 165 166 | 165 166 | 165 166 | 165 166 | 165 166 | 165 166 | 165 166 | 165 166 | 165 166 |
| 163 164 | 163 164 | 163 164 | 163 164 | 163 164 | 163 164 | 163 164 | 163 164 | 162 164 | 162 164 | 163 164 |
| 161 162 | 161 162 | 161 162 | 161 162 | 161 162 | 161 162 | 161 162 | 161 162 | 161 162 | 161 162 | 161 162 |
| 159 160 | 159 160 | 159 160 | 159 160 | 159 160 | 159 160 | 159 160 | 159 160 | 159 160 | 159 160 | 159 160 |
| 157 158 | 157 158 | 157 158 | 157 158 | 157 158 | 157 158 | 157 158 | 157 158 | 157 158 | 157 158 | 157 158 |
| 155 156 | 155 156 | 155 156 | 155 156 | 155 156 | 155 156 | 155 156 | 155 156 | 155 156 | 155 156 | 155 156 |

Image 5/10

| | | | _, | | | | | | | |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 257 258 | 257 258 | 257 258 | 257 258 | 257 258 | 257 258 | 257 258 | 257 258 | 257 258 | 257 258 | 257 258 |
| 255 256 | 255 256 | 255 256 | 255 256 | 255 256 | 255 256 | 255 256 | 255 256 | 255 256 | 255 256 | 255 256 |
| 253 254 | 253 254 | 253 254 | 253 254 | 253 254 | 253 254 | 253 254 | 253 254 | 253 254 | 253 254 | 253 254 |
| 251 252 | 251 252 | 251 252 | 251 252 | 251 252 | 251 252 | 251 252 | 251 252 | 251 252 | 251 252 | 251 252 |
| 249 250 | 249 250 | 249 250 | 249 250 | 249 250 | 249 250 | 249 250 | 249 250 | 249 250 | 249 250 | 249 250 |
| 247 248 | 247 248 | 247 248 | 247 248 | 247 248 | 247 248 | 247 248 | 247 248 | 247 248 | 247 248 | 247 248 |
| 245 246 | 245 246 | 245 246 | 245 246 | 245 246 | 245 246 | 245 246 | 245 246 | 245 246 | 245 246 | 245 246 |
| 243 244 | 243 244 | 243 244 | 243 244 | 243 244 | 243 244 | 243 244 | 243 244 | 243 244 | 243 244 | 243 244 |
| 241 242 | 241 242 | 241 242 | 241 242 | 241 242 | 241 242 | 241 242 | 241 242 | 241 242 | 241 242 | 241 242 |
| 239 240 | 239 240 | 239 240 | 239 240 | 239 240 | 239 240 | 239 240 | 239 240 | 239 240 | 239 240 | 239 240 |
| 237 238 | 237 238 | 237 238 | 237 238 | 237 238 | 237 238 | 237 238 | 237 238 | 237 238 | 237 238 | 237 238 |
| 235 236 | 235 236 | 235 236 | 235 236 | 235 236 | 235 236 | 235 236 | 235 236 | 235 236 | 235 236 | 235 236 |
| 233 234 | 233 234 | 233 234 | 233 234 | 233 224 | 233 234 | 233 234 | 233 234 | 233 234 | 233 234 | 233 234 |
| 231 232 | 231 232 | 231 232 | 231 232 | 231 232 | 231 232 | 231 232 | 231 232 | 231 232 | 231 232 | 231 232 |
| 229 230 | 229 230 | 229 230 | 229 230 | 229 230 | 229 230 | 229 230 | 229 230 | 229 230 | 229 230 | 229 230 |
| 227 128 | 227 228 | 227 228 | 227 228 | 227 228 | 227 228 | 227 228 | 227 228 | 227 228 | 227 228 | 227 228 |
| 225 226 | 225 226 | 225 226 | 225 226 | 225 226 | 225 226 | 225 226 | 225 226 | 225 226 | 225 226 | 225 226 |
| 223 224 | 223 224 | 223 224 | 223 224 | 223 224 | 223 224 | 223 224 | 223 224 | 223 224 | 223 224 | 223 224 |
| 221 222 | 221 222 | 221 222 | 221 222 | 221 222 | 221 222 | 221 222 | 221 222 | 221 222 | 221 222 | 221 222 |
| 219 220 | 219 220 | 219 220 | 219 220 | 219 220 | 219 220 | 219 220 | 219 220 | 219 220 | 219 220 | 219 220 |
| 217 218 | 217 218 | 217 218 | 217 218 | 217 218 | 217 218 | 217 218 | 217 218 | 217 218 | 217 218 | 217 218 |
| 215 216 | 215 216 | 215 216 | 215 216 | 215 216 | 215 216 | 215 216 | 215 216 | 215 216 | 215 216 | 215 216 |
| 213 214 | 213 214 | 213 214 | 213 214 | 213 214 | 213 214 | 213 214 | 213 214 | 213 214 | 213 214 | 213 214 |
| 211 212 | 211 212 | 211 212 | 211 212 | 211 212 | 211 112 | 211 212 | 211 112 | 211 212 | 211 212 | 211 212 |
| 209 210 | 209 210 | 209 210 | 209 210 | 209 210 | 209 210 | 209 210 | 209 210 | 209 210 | 209 210 | 209 210 |
| 207 208 | 207 208 | 207 208 | 207 208 | 207 208 | 207 208 | 207 108 | 207 108 | 207 208 | 207 108 | 207 108 |
| | | | | | | | | | | |

Image 6/10

| 309 310 | 309 310 | 309 310 | 309 310 | 309 310 | 309 310 | 309 310 | 309 310 | 309 310 | 309 310 | 309 310 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 307 308 | 307 308 | 307 308 | 307 308 | 307 308 | 307 308 | 307 308 | 307 308 | 307 308 | 307 308 | 307 108 |
| 305 306 | 305 306 | 305 306 | 305 306 | 305 306 | 305 306 | 305 306 | 305 306 | 305 306 | 305 306 | 305 306 |
| 303 304 | 303 304 | 303 304 | 303 304 | 303 304 | 303 304 | 303 304 | 303 304 | 303 304 | 303 304 | 303 304 |
| 301 302 | 301 302 | 301 302 | 301 302 | 301 302 | 301 302 | 301 302 | 301 302 | 301 302 | 301 302 | 301 302 |
| 299 300 | 299 300 | 299 300 | 299 300 | 299 300 | 299 300 | 299 300 | 299 300 | 299 300 | 299 300 | 299 300 |
| 297 298 | 297 298 | 297 298 | 297 298 | 297 298 | 297 298 | 297 298 | 297 298 | 297 298 | 297 298 | 297 298 |
| 295 296 | 295 296 | 295 296 | 295 296 | 295 296 | 295 296 | 295 296 | 295 296 | 295 296 | 295 296 | 295 296 |
| 293 294 | 293 294 | 293 294 | 293 294 | 293 294 | 293 294 | 293 294 | 293 294 | 293 294 | 293 294 | 293 294 |
| 291 292 | 291 292 | 291 292 | 291 292 | 291 292 | 291 292 | 291 292 | 291 292 | 291 292 | 291 292 | 291 292 |
| 289 290 | 289 290 | 289 290 | 289 290 | 289 290 | 289 290 | 289 290 | 289 290 | 289 290 | 289 290 | 289 290 |
| 287 288 | 287 288 | 287 288 | 287 288 | 287 288 | 287 288 | 287 288 | 287 288 | 287 288 | 287 288 | 287 288 |
| 285 286 | 285 286 | 285 286 | 285 286 | 285 286 | 285 286 | 285 286 | 285 286 | 285 286 | 285 286 | 285 286 |
| 283 284 | 283 284 | 283 284 | 283 284 | 283 284 | 283 284 | 283 284 | 283 284 | 283 284 | 283 284 | 283 284 |
| 281 282 | 281 282 | 281 282 | 281 282 | 281 282 | 281 282 | 281 282 | 281 282 | 281 282 | 281 282 | 281 282 |
| 279 280 | 279 280 | 279 280 | 279 280 | 279 280 | 279 280 | 279 280 | 279 280 | 279 280 | 279 280 | 279 280 |
| 277 178 | 277 278 | 277 278 | 277 278 | 277 278 | 277 278 | 277 278 | 277 278 | 277 278 | 277 278 | 277 278 |
| 275 276 | 275 276 | 275 276 | 275 276 | 275 276 | 275 276 | 275 276 | 275 276 | 275 276 | 275 276 | 275 276 |
| 273 274 | 273 274 | 273 274 | 273 274 | 273 274 | 273 274 | 273 274 | 273 274 | 273 274 | 273 274 | 273 274 |
| 271 272 | 271 272 | 271 272 | 271 272 | 271 272 | 271 272 | 271 272 | 271 272 | 271 272 | 271 272 | 271 272 |
| 269 270 | 269 270 | 269 270 | 269 270 | 269 270 | 269 270 | 269 270 | 269 270 | 269 270 | 269 270 | 269 270 |
| 267 268 | 267 268 | 267 268 | 267 268 | 267 268 | 267 268 | 267 268 | 267 268 | 267 268 | 267 268 | 267 268 |
| 265 266 | 265 266 | 265 266 | 265 266 | 265 266 | 265 266 | 265 266 | 265 266 | 265 266 | 265 266 | 265 266 |
| 263 264 | 263 264 | 263 264 | 263 264 | 263 264 | 263 264 | 263 264 | 263 264 | 263 264 | 263 264 | 263 264 |
| 261 262 | 261 262 | 261 262 | 261 262 | 261 262 | 261 262 | 261 262 | 261 262 | 261 162 | 261 262 | 261 262 |
| 259 260 | 259 260 | 259 260 | 259 260 | 259 260 | 259 260 | 259 260 | 259 260 | 259 260 | 259 260 | 259 260 |
| | | | | | | | | | | |

Image 7/10

| 361 362 | 361 362 | 361 362 | 361 362 | 361 362 | 361 362 | 361 362 | 361 362 | 361 362 | 361 362 | 361 362 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
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| 357 358 | 357 358 | 357 358 | 357 358 | 357 358 | 357 358 | 357 358 | 357 358 | 357 358 | 357 358 | 357 358 |
| 355 356 | 355 356 | 355 356 | 355 356 | 355 356 | 355 356 | 355 356 | 355 356 | 355 356 | 355 356 | 355 356 |
| 353 354 | 353 354 | 353 354 | 353 354 | 353 354 | 353 354 | 353 354 | 353 354 | 353 354 | 353 354 | 353 354 |
| 351 352 | 351 352 | 351 352 | 351 352 | 351 352 | 351 352 | 351 352 | 351 352 | 351 352 | 351 352 | 351 352 |
| 349 350 | 349 350 | 349 350 | 349 350 | 349 350 | 349 350 | 349 350 | 349 350 | 349 350 | 349 350 | 349 350 |
| 347 248 | 347 348 | 347 348 | 347 348 | 347 348 | 347 348 | 347 348 | 347 348 | 347 348 | 347 348 | 347 348 |
| 345 346 | 345 346 | 345 346 | 345 346 | 345 346 | 345 346 | 345 346 | 345 346 | 345 346 | 345 346 | 345 346 |
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| 337 338 | 337 338 | 337 338 | 337 338 | 337 338 | 337 338 | 337 338 | 337 338 | 337 338 | 337 338 | 337 338 |
| 335 336 | 335 336 | 335 336 | 335 336 | 335 336 | 335 336 | 335 336 | 335 336 | 335 336 | 335 336 | 335 336 |
| 333 334 | 333 334 | 333 334 | 333 334 | 333 324 | 333 334 | 333 334 | 333 334 | 333 334 | 333 334 | 333 334 |
| 331 332 | 331 332 | 331 332 | 331 332 | 331 332 | 331 332 | 331 332 | 331 332 | 331 332 | 331 332 | 331 232 |
| 329 330 | 329 330 | 329 330 | 329 330 | 329 330 | 329 330 | 329 330 | 329 330 | 329 330 | 329 330 | 329 330 |
| 327 328 | 327 328 | 327 328 | 327 328 | 327 328 | 327 328 | 327 328 | 327 328 | 327 328 | 327 328 | 327 328 |
| 325 326 | 325 326 | 325 326 | 325 326 | 325 326 | 325 326 | 325 326 | 325 326 | 325 326 | 325 326 | 325 326 |
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| 317 318 | 317 318 | 317 318 | 317 318 | 317 318 | 317 318 | 317 318 | 317 318 | 317 318 | 317 318 | 317 318 |
| 315 216 | 315 316 | 315 316 | 315 316 | 315 316 | 315 316 | 315 316 | 315 316 | 315 316 | 315 316 | 315 316 |
| 313 314 | 313 314 | 313 314 | 313 314 | 313 314 | 313 314 | 313 314 | 313 314 | 313 314 | 313 314 | 313 314 |
| 311 312 | 311 312 | 311 312 | 311 312 | 311 312 | 311 312 | 311 212 | 311 312 | 311 312 | 311 312 | 311 312 |

Image 8/10

| 413 414 | 413 414 | 413 414 | 413 414 | 413 414 | 413 414 | 413 414 | 413 414 | 413 414 | 413 414 | 413 414 |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
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| 409 410 | 409 410 | 409 410 | 409 410 | 409 410 | 409 410 | 409 410 | 409 410 | 409 410 | 409 410 | 409 410 |
| 407 408 | 407 408 | 407 408 | 407 408 | 407 408 | 407 408 | 407 408 | 407 408 | 407 408 | 407 408 | 407 408 |
| 405 406 | 405 406 | 405 406 | 405 406 | 405 406 | 405 406 | 405 406 | 405 406 | 405 406 | 405 406 | 405 406 |
| 403 404 | 403 404 | 403 404 | 403 404 | 403 404 | 403 404 | 403 404 | 403 404 | 403 404 | 403 404 | 403 404 |
| 401 402 | 401 402 | 401 402 | 401 402 | 401 402 | 401 402 | 401 402 | 401 402 | 401 402 | 401 402 | 401 402 |
| 399 400 | 399 400 | 399 400 | 399 400 | 399 400 | 399 400 | 399 400 | 399 400 | 399 400 | 399 400 | 339 400 |
| 397 398 | 397 398 | 397 398 | 397 398 | 397 398 | 397 398 | 397 398 | 397 398 | 397 398 | 397 398 | 397 398 |
| 395 396 | 395 396 | 395 396 | 395 396 | 395 396 | 395 396 | 395 396 | 395 396 | 395 396 | 395 396 | 395 396 |
| 393 394 | 393 394 | 393 394 | 393 394 | 393 394 | 393 394 | 393 394 | 393 394 | 393 394 | 393 394 | 393 394 |
| 391 392 | 391 392 | 391 392 | 391 392 | 391 392 | 391 392 | 391 392 | 391 392 | 391 392 | 391 392 | 391 392 |
| 389 390 | 389 390 | 389 390 | 389 390 | 389 390 | 389 390 | 389 390 | 389 390 | 389 390 | 389 390 | 389 390 |
| 387 388 | 387 388 | 387 388 | 387 388 | 387 388 | 387 388 | 387 388 | 387 388 | 387 388 | 387 388 | 387 388 |
| 385 386 | 385 386 | 385 386 | 385 386 | 385 386 | 385 386 | 385 386 | 385 386 | 385 386 | 385 386 | 385 386 |
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| 381 382 | 381 382 | 381 382 | 381 382 | 381 382 | 381 382 | 381 382 | 381 382 | 381 382 | 381 382 | 381 382 |
| 379 380 | 379 380 | 379 380 | 379 380 | 379 380 | 379 380 | 379 380 | 379 380 | 379 380 | 379 380 | 379 380 |
| 377 378 | 377 378 | 377 378 | 377 378 | 377 378 | 377 378 | 377 378 | 377 378 | 377 378 | 377 378 | 377 378 |
| 375 376 | 375 376 | 375 376 | 375 376 | 375 376 | 375 376 | 375 376 | 375 376 | 375 376 | 375 376 | 375 376 |
| 373 374 | 373 374 | 373 374 | 373 374 | 373 374 | 373 374 | 373 374 | 373 374 | 373 374 | 373 374 | 373 374 |
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| 367 368 | 367 368 | 367 368 | 367 368 | 367 368 | 367 368 | 367 368 | 367 368 | 367 368 | 367 368 | 367 368 |
| 365 366 | 365 366 | 365 366 | 365 366 | 365 366 | 365 366 | 365 366 | 365 366 | 365 366 | 365 366 | 365 366 |
| 363 364 | 363 364 | 363 364 | 363 364 | 363 364 | 363 364 | 363 364 | 363 364 | 363 364 | 363 364 | 363 364 |
| | | | | | | | | | | |

Image 9/10

| 465 466 | 465 466 | 465 466 | 465 466 | 465 466 | 465 466 | 465 466 | 465 466 | 465 466 | 465 466 | 465 466 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 463 464 | 463 464 | 463 464 | 463 464 | 463 464 | 463 464 | 463 464 | 463 464 | 463 464 | 463 464 | 463 364 |
| 461 462 | 461 462 | 461 462 | 461 462 | 461 462 | 461 462 | 461 462 | 461 462 | 461 462 | 461 462 | 461 462 |
| 459 460 | 459 460 | 459 460 | 459 460 | 459 460 | 459 460 | 459 460 | 459 460 | 459 460 | 459 460 | 459 460 |
| 457 458 | 457 458 | 457 458 | 457 458 | 457 458 | 457 458 | 457 358 | 357 358 | 357 358 | 357 358 | 357 358 |
| 455 456 | 455 456 | 455 456 | 455 456 | 455 456 | 455 456 | 455 456 | 455 456 | 455 456 | 455 456 | 455 456 |
| 453 454 | 453 454 | 453 454 | 453 454 | 453 454 | 453 454 | 453 454 | 453 454 | 453 454 | 453 454 | 453 454 |
| 451 452 | 451 452 | 451 452 | 451 452 | 451 452 | 451 452 | 451 452 | 451 452 | 451 452 | 451 452 | 451 452 |
| 449 450 | 449 450 | 449 450 | 449 450 | 449 450 | 449 450 | 449 450 | 449 450 | 449 450 | 449 450 | 449 450 |
| 447 448 | 447 448 | 447 448 | 447 448 | 447 448 | 447 448 | 447 448 | 447 448 | 447 448 | 447 448 | 447 448 |
| 445 446 | 445 446 | 445 446 | 445 446 | 445 446 | 445 446 | 445 446 | 445 446 | 445 446 | 445 446 | 445 446 |
| 443 444 | 443 444 | 443 444 | 443 444 | 443 444 | 443 444 | 443 444 | 443 444 | 443 444 | 443 444 | 443 444 |
| 441 442 | 441 442 | 441 442 | 441 442 | 441 442 | 441 442 | 441 442 | 441 442 | 441 442 | 441 442 | 441 442 |
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| 435 436 | 435 436 | 435 436 | 435 436 | 435 436 | 435 436 | 435 436 | 435 436 | 435 436 | 435 436 | 435 436 |
| 433 434 | 433 434 | 433 434 | 433 434 | 433 424 | 433 434 | 433 434 | 433 434 | 433 434 | 433 434 | 433 434 |
| 431 432 | 431 432 | 431 432 | 431 432 | 431 432 | 431 432 | 431 432 | 431 432 | 431 432 | 431 432 | 431 432 |
| 429 430 | 429 430 | 429 430 | 429 430 | 429 430 | 429 430 | 429 430 | 429 430 | 429 430 | 429 430 | 429 430 |
| 427 428 | 427 428 | 427 428 | 427 428 | 427 428 | 427 428 | 427 428 | 427 428 | 427 428 | 427 428 | 427 428 |
| 425 426 | 425 426 | 425 426 | 425 426 | 425 426 | 425 426 | 425 426 | 425 426 | 425 426 | 425 426 | 425 426 |
| 423 424 | 423 424 | 423 424 | 423 424 | 423 424 | 423 424 | 423 424 | 423 424 | 423 424 | 423 424 | 423 424 |
| 421 422 | 421 422 | 421 422 | 421 422 | 421 422 | 421 422 | 421 422 | 421 422 | 421 422 | 421 422 | 421 422 |
| 419 420 | 419 420 | 419 420 | 419 420 | 419 420 | 419 420 | 419 420 | 419 420 | 419 420 | 419 420 | 419 420 |
| 417 418 | 417 418 | 417 418 | 417 418 | 417 418 | 417 418 | 417 418 | 417 418 | 417 418 | 417 418 | 417 418 |
| 415 416 | 415 416 | 415 416 | 415 416 | 415 416 | 415 416 | 415 416 | 415 416 | 415 416 | 415 416 | 415 416 |
| | | | | | | | | | | |

Image 10/10

| 501 502 | E01 E02 | 501 502 | 501 502 | 501 502 | 501 502 | E01 E02 | 501 502 | 501 502 | 501 502 | 501 502 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 501 502 | 501 502 | 501 502 | 501 502 | 501 502 | 301 302 | 501 502 | 501 502 | 501 502 | 501 502 | 301 302 |
| 499 500 | 499 500 | 499 500 | 499 500 | 499 500 | 499 500 | 499 500 | 499 500 | 499 500 | 499 500 | 439 500 |
| 497 498 | 497 498 | 497 498 | 497 498 | 497 498 | 497 498 | 497 498 | 497 498 | 497 498 | 497 498 | 497 498 |
| 495 496 | 495 496 | 495 496 | 495 496 | 495 496 | 495 496 | 495 496 | 495 496 | 495 496 | 495 496 | 495 496 |
| 493 494 | 493 494 | 493 494 | 493 494 | 493 494 | 493 494 | 493 494 | 493 494 | 493 494 | 493 494 | 493 494 |
| 491 492 | 491 492 | 491 492 | 491 492 | 491 492 | 491 492 | 491 492 | 491 492 | 491 492 | 491 492 | 491 492 |
| 489 490 | 489 490 | 489 490 | 489 490 | 489 490 | 489 490 | 489 490 | 489 490 | 489 490 | 489 490 | 489 490 |
| 487 488 | 487 488 | 487 488 | 487 488 | 487 488 | 487 488 | 487 488 | 487 488 | 487 488 | 487 488 | 487 488 |
| 485 486 | 485 486 | 485 486 | 485 486 | 485 486 | 485 486 | 485 486 | 485 486 | 485 486 | 485 486 | 485 486 |
| 483 484 | 483 484 | 483 484 | 483 484 | 483 484 | 483 484 | 483 484 | 483 484 | 483 484 | 483 484 | 483 484 |
| 481 482 | 481 482 | 481 482 | 481 482 | 481 482 | 481 482 | 481 482 | 481 482 | 481 482 | 481 482 | 481 482 |
| 479 480 | 479 480 | 479 480 | 479 480 | 479 480 | 479 480 | 479 480 | 479 480 | 479 480 | 479 480 | 479 480 |
| 477 478 | 477 478 | 477 478 | 477 478 | 477 478 | 477 478 | 477 478 | 477 478 | 477 478 | 477 478 | 477 478 |
| 475 476 | 475 476 | 475 476 | 475 476 | 475 476 | 475 476 | 475 476 | 475 476 | 475 476 | 475 476 | 475 476 |
| 473 474 | 473 474 | 473 474 | 473 474 | 473 474 | 473 474 | 473 474 | 473 474 | 473 474 | 473 474 | 473 474 |
| 471 472 | 471 472 | 471 472 | 471 472 | 471 472 | 471 472 | 471 472 | 471 472 | 471 472 | 471 472 | 471 472 |
| 469 470 | 469 470 | 469 470 | 469 470 | 469 470 | 469 470 | 469 470 | 469 470 | 469 470 | 469 470 | 469 470 |
| 467 468 | 467 468 | 467 468 | 467 468 | 467 468 | 467 468 | 467 468 | 467 468 | 467 468 | 467 468 | 467 468 |

Note: A similar approach was independently followed by a group of researchers of the Monash University in Australia on a work with the title "Simple wave-optical superpositions as prime number sieves" published a year ago https://arxiv.org/pdf/1812.04203.pdf

Their work was mentioned in Nature with the title "Prime Interference" https://www.nature.com/articles/s41567-019-0497-5

It would be expected that more people were being now working in these similar terms and that new works and strong advances on prime numbers theory come pretty soon.