|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N | 2\*N - 1 | 2\*N\*2 -1 | 2\*N\*3 -1 | 2\*N\*4 -1 | 2\*N\*5 -1 | 2\*N\*6 -1 | 2\*N\*7-1 | 2\*N\*8-1 | 2\*N\*9-1 | 2\*N\*10-1 | 2\*N\*11-1 |
| 1 | 1 | 3 | 5 | 7 | 9 | 11 | 13 |  |  | 19 |  |
| 2 | 3 | 7 | 11 | 15 | 19 | 23 | 27 |  |  | 39 |  |
| 3 | 5 | 11 | 17 | 23 | 29 |  |  |  |  | 59 |  |
| 4 | 7 | 15 | 23 | 31 | 39 |  |  |  |  | 79 |  |
| 5 | 9 | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 | 109 |
| 6 | 11 | 23 | 35 |  | 59 |  |  |  |  | 119 |  |
| 7 | 13 |  |  |  | 69 |  |  |  |  | 139 |  |
| 8 | 15 |  |  |  | 79 |  |  |  |  | 159 |  |
| 9 | 17 |  |  |  | 89 |  |  |  |  | 179 |  |
| 10 | 19 | 39 | 59 | 79 | 99 | 119 | 139 | 159 | 179 | 199 | 219 |
| 11 | 21 |  |  |  | 109 |  |  |  |  | 219 |  |
| 12 | 23 |  |  |  | 119 |  |  |  |  | 239 |  |
| 13 | 25 |  |  |  | 129 |  |  |  |  | 259 |  |
| 14 | 27 |  |  |  | 139 |  |  |  |  | 279 |  |
| 15 | 29 | 59 | 89 | 109 | 149 | 179 | 209 | 239 | 269 | 299 | 329 |
| 16 | 31 |  |  |  | 159 |  |  |  |  | 319 |  |
| 17 | 33 |  |  |  | 169 |  |  |  |  | 239 |  |
| 18 | 35 |  |  |  | 179 |  |  |  |  | 359 |  |
| 19 | 37 |  |  |  | 189 |  |  |  |  | 379 |  |
| 20 | 39 | 79 | 119 | 159 | 199 | 239 | 279 | 319 | 359 | 399 | 439 |
| .. | … |  | … |  |  |  |  |  |  | 419 |  |
|  |  |  |  |  |  |  |  |  |  | 439 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | N |  |  |  |  | …………. |  |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
|  | 3 | 5 | 5 | 5 | 5 | 5 | 5 |
|  | 4 | 7 | 7 | 7 | 7 | 7 | 7 |
|  | 5 | 9 | 9 | 9 | 9 | 9 | 9 |
|  | 6 | 11 | 11 | 11 | 11 | 11 | 11 |
|  | 7 | 13 | 13 | 13 | 13 | 13 | 13 |
|  | 8 | 15 | 15 | 15 | 15 | 15 | 15 |
|  | 9 | 17 | 17 | 17 | 17 | 17 | 17 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | N |  |  | N |  |  |  |  |  |
|  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |
|  | 2 | 3 | 3 | 2 | 1 |  |  |  |  |
|  | 3 | 5 | 5 | 3 |  | 2 |  |  |  |
|  | 4 | 7 | 7 | 4 | 2 |  |  |  |  |
|  | 5 | 9 | 9 | 5 |  | 3 |  |  |  |
|  | 6 | 11 | 11 | 6 | 3 |  |  |  |  |
|  | 7 | 13 | 13 | 7 |  | 4 |  |  |  |
|  | 8 | 15 | 15 | 8 | 4 |  |  |  |  |
|  | 9 | 17 | 17 | 9 |  | 5 |  |  |  |
|  | 10 | 19 | 19 | 10 | 5 |  |  |  |  |
|  | 11 | 21 | 21 | 11 |  | 6 |  |  |  |

X = 2N-1

X = N/2 +1/2

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X = N | N | X =2\*N - 1 |  |  | N |  |  | N |  | N |  |  |
| ½+1/2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 |  | 1 | 1 |  |
| 3/2+1/2 | 2 | 3 | 3 | 3 | 2 |  |  | 2 | 1 | 2 | 3 | 1 |
| 5/2+1/2 | 3 | 5 | 5 | 5 | 3 |  | 1 | 3 |  | 3 | 5 |  |
| 7/2 +1/2 | 4 | 7 | 7 | 7 | 4 |  |  | 4 | 2 | 4 | 7 | 2 |
| 9/2+1/2 | 5 | 9 | 9 | 9 | 5 | 2 | 2 | 5 |  | 5 | 9 |  |
| 11/2+1/2 | 6 | 11 | 11 | 11 | 6 |  |  | 6 | 3 | 6 | 11 | 3 |
| 13/2+1/2 | 7 | 13 | 13 | 13 | 7 | 3 | 3 | 7 |  | 7 | 13 |  |
| 15/2+1/2 | 8 | 15 | 15 | 15 | 8 |  |  | 8 | 4 | 8 | 15 | 4 |
|  | 9 | 17 | 17 | 17 | 9 | 4 | 4 | 9 |  | 9 | 17 |  |
|  | 10 | 19 | 19 | 19 | 10 |  |  | 10 | 5 | 10 | 19 | 5 |
|  | 11 | 21 | 21 | 21 | 11 | 5 | 5 | 11 |  | 11 | 21 |  |
|  | 12 | 23 | 23 | 23 | 12 |  |  | 12 | 6 | 12 | 23 | 6 |
|  | 13 | 25 | 25 | 25 | 13 | 6 | 6 | 13 |  | 13 | 25 |  |
|  | 14 | 27 | 27 | 27 | 14 |  |  | 14 | 7 | 14 | 27 | 7 |
|  | 15 | 29 | 29 | 29 | 15 | 7 | 7 | 15 |  | 15 | 29 |  |
|  | 16 | 31 | 31 | 31 | 16 |  |  | 16 | 8 | 16 | 31 | 8 |
|  | 17 | 33 | 33 | 33 | 17 | 8 | 8 | 17 |  | 17 | 33 |  |
|  | 18 | 35 | 35 | 35 | 18 |  |  | 18 | 9 | 18 | 35 | 9 |
|  | 19 | 37 | 37 | 37 | 19 | 9 | 9 | 19 |  | 19 | 37 |  |
|  | 20 | 39 | 39 | 39 | 20 |  |  | 20 | 10 | 20 | 39 | 10 |
|  | .. | … | … | … | .. | 10 |  | .. |  | .. |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N | 2\*N - 1 |  |  | N |  |  | N |  | N |  |  |
| 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 |  | 1 |  |  |
| 2 | 3 | 3 | 3 | 2 |  |  | 2 | 1 | 2 | 2 | 2 |
| 3 | 5 | 5 | 5 | 3 |  | 1 | 3 |  | 3 |  |  |
| 4 | 7 | 7 | 7 | 4 |  |  | 4 | 2 | 4 | 3 | 3 |
| 5 | 9 | 9 | 9 | 5 | 2 | 2 | 5 |  | 5 |  |  |
| 6 | 11 | 11 | 11 | 6 |  |  | 6 | 3 | 6 | 4 | 4 |
| 7 | 13 | 13 | 13 | 7 | 3 | 3 | 7 |  | 7 |  |  |
| 8 | 15 | 15 | 15 | 8 |  |  | 8 | 4 | 8 | 5 | 5 |
| 9 | 17 | 17 | 17 | 9 | 4 | 4 | 9 |  | 9 |  |  |
| 10 | 19 | 19 | 19 | 10 |  |  | 10 | 5 | 10 | 6 | 6 |
| 11 | 21 | 21 | 21 | 11 | 5 | 5 | 11 |  | 11 |  |  |
| 12 | 23 | 23 | 23 | 12 |  |  | 12 | 6 | 12 | 7 | 7 |
| 13 | 25 | 25 | 25 | 13 | 6 | 6 | 13 |  | 13 |  |  |
| 14 | 27 | 27 | 27 | 14 |  |  | 14 | 7 | 14 | 8 | 8 |
| 15 | 29 | 29 | 29 | 15 | 7 | 7 | 15 |  | 15 |  |  |
| 16 | 31 | 31 | 31 | 16 |  |  | 16 | 8 | 16 | 9 | 9 |
| 17 | 33 | 33 | 33 | 17 | 8 | 8 | 17 |  | 17 |  |  |
| 18 | 35 | 35 | 35 | 18 |  |  | 18 | 9 | 18 | 10 | 10 |
| 19 | 37 | 37 | 37 | 19 | 9 | 9 | 19 |  | 19 |  |  |
| 20 | 39 | 39 | 39 | 20 |  |  | 20 | 10 | 20 | 11 | 11 |
| .. | … | … | … | .. | 10 |  | .. |  | .. |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N | 2\*N - 1 |  |  | N |  |  | N |  | N |  |  |
| 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 |  | 1 |  |  |
| 2 | 3 | 3 | 3 | 2 |  |  | 2 | 1 | 2 | 1 | 1 |
| 3 | 5 | 5 | 5 | 3 |  | 1 | 3 |  | 3 |  |  |
| 4 | 7 | 7 | 7 | 4 |  |  | 4 | 2 | 4 | 2 | 2 |
| 5 | 9 | 9 | 9 | 5 | 2 | 2 | 5 |  | 5 |  |  |
| 6 | 11 | 11 | 11 | 6 |  |  | 6 | 3 | 6 | 3 | 3 |
| 7 | 13 | 13 | 13 | 7 | 3 | 3 | 7 |  | 7 |  |  |
| 8 | 15 | 15 | 15 | 8 |  |  | 8 | 4 | 8 | 4 | 4 |
| 9 | 17 | 17 | 17 | 9 | 4 | 4 | 9 |  | 9 |  |  |
| 10 | 19 | 19 | 19 | 10 |  |  | 10 | 5 | 10 | 5 | 5 |
| 11 | 21 | 21 | 21 | 11 | 5 | 5 | 11 |  | 11 |  |  |
| 12 | 23 | 23 | 23 | 12 |  |  | 12 | 6 | 12 | 6 | 6 |
| 13 | 25 | 25 | 25 | 13 | 6 | 6 | 13 |  | 13 |  |  |
| 14 | 27 | 27 | 27 | 14 |  |  | 14 | 7 | 14 | 7 | 7 |
| 15 | 29 | 29 | 29 | 15 | 7 | 7 | 15 |  | 15 |  |  |
| 16 | 31 | 31 | 31 | 16 |  |  | 16 | 8 | 16 | 8 | 8 |
| 17 | 33 | 33 | 33 | 17 | 8 | 8 | 17 |  | 17 |  |  |
| 18 | 35 | 35 | 35 | 18 |  |  | 18 | 9 | 18 | 9 | 9 |
| 19 | 37 | 37 | 37 | 19 | 9 | 9 | 19 |  | 19 |  |  |
| 20 | 39 | 39 | 39 | 20 |  |  | 20 | 10 | 20 | 10 | 10 |
| .. | … | … | … | .. | 10 |  | .. |  | .. |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | +2 | +4 | +6 | +8 | +10 | +12 | +14 | +16 | +18 | +20 | +22 |
|  | N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| S  + |  | 2\*N - 1 | 2\*N\*2 -1 | 2\*N\*3 -1 | 2\*N\*4 -1 | 2\*N\*5 -1 | 2\*N\*6 -1 | 2\*N\*7-1 | 2\*N\*8-1 | 2\*N\*9-1 | 2\*N\*10-1 | 2\*N\*11-1 |
| +2 | 1 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17;9+8 | 19; 10+9 | 21; 20+1 |
| +4 | 2 | 3 | 7 | 11 | 15 | 19 | 23 | 27 | 31 | 35;9+24 | 39;30+9 | 43;40+3 |
| +6 | 3 | 5 | 11 | 17 | 23 | 29 | 35 | 41 | 47 | 53;9+44 | 59;50+9 | 65;60+5 |
| +8 | 4 | 7 | 15 | 23 | 31 | 39 | 47 | 55 | 63 | 71 | 79;70+9 | 87;80+7 |
| +10 | 5 | 9 | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99;90+9 | 109; 100+9 |
| +12 | 6 | 11; 10+1 | 23;20+3 | 35;30+5 | 47;40+7 | 59;50+9 | 71;60+11 | 83;70+13 | 95;80+15 | 107;90+17 | 119;110+9 | 131; 120+11 |
| +14 | 7 | 13;10+3 | 27;20+7 | 41;30+11 | 55;40+15 | 69;50+19 | 83;60+23 | 97;70+27 | 111;80+31 | 125;90+35 | 139;130+9 | 153;140+13 |
| +16 | 8 | 15;10+5 | 31;20+11 | 47;30+17 | 63;40+23 | 79;50+29 | 95;60+35 | 111;70+41 | 127;80+47 | 143;90+53 | 159;150+9 | 175;160+15 |
| +18 | 9 | 17;10+7 | 35;20+15 | 53;30+23 | 71;40+31 | 89;50+39 | 107;60+47 | 125;70+55 | 143;80+63 | 161;90+71 | 179;170+9 | 197;180+17 |
| +20 | 10 | 19;10+9 | 39;20+19 | 59;30+29 | 79;40+39 | 99;50+49 | 119;60+59 | 139;70+69 | 159;80+79 | 179;90+89 | 199;190+9 | 219; 200+19 |
| +22 | 11 | 21;20+1 | 43;40+3 | 65;60+5 | 87;80+7 | 109;100+9 | 131;120+11 | 153;140+13 | 175;160+15 | 197;180+17 | 219;210+9 | 231;220+21 |
| +24 | 12 | 23;16+7 | 47;40+7 | 71;60+11 | 95;80+15 | 119;100+19 | 143;120+23 | 167;140+27 | 191;160+31 | 225;180+35 | 239;230+9 | 263;240+23 |
| +26 | 13 | 25;17+8 | 51;40+11 | 77;60+17 | 103;80+23 | 129;100+29 | 155;120+35 | 181;140+41 | 207;160+47 |  | 259;250+9 | 285;260+25 |
| +28 | 14 | 27;18+9 | 55;40+15 | 83;60+23 | 111;80+31 | 139;100+39 | 167;120+47 |  | 223;160+63 |  | 279;270+9 | 307;280+27 |
| +30 | 15 | 29;19+10 | 59;40+19 | 89;60+29 | 119;80+39 | 149;100+49 | 179;120+59 | 209 | 239;160+79 | 269 | 299;290+9 | 329;300+29 |
| +32 | 16 | 31;20+11 | 63;60+3 | 95;90+5 | 127;120+7 | 159;150+9 | 191;180+11 |  |  |  | 319;310+9 | 351;320+31 |
| +34 | 17 | 33;21+12 | 67;60+7 | 101;90+11 | 135;120+15 | 169;150+19 | 203;180+23 |  |  |  | 339;330+9 | 373;340+33 |
| +36 | 18 | 35;22+13 | 71;60+11 | 107;90+17 | 143;120+23 | 179;150+29 | 315;180+35 |  |  |  | 359;350+9 | 395;360+35 |
| +38 | 19 | 37;23+14 | 75;60+15 | 113;90+23 | 151;120+31 | 189;150+39 | 327;180+47 |  |  |  | 379;370+9 | 417;380+37 |
| +40 | 20 | 39;25+15 | 79;60+19 | 119;90+29 | 159;120+39 | 199;150+49 | 239;180+59 | 279 | 319 | 359 | 399;390+9 | 439;400+39 |
|  | .. | … | 83;80+3 | 125;120+5 | 167;160+7 | 209;200+9 | 251;240+11 |  |  |  | … |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | +1 | +2 | +6 | +8 | +10 | +12 | +14 | +16 | +18 | +20 | +22 |
|  | N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| S  + |  | N - 1 | N\*3 -1 | 2\*N\*3 -1 | 2\*N\*4 -1 | 2\*N\*5 -1 | 2\*N\*6 -1 | 2\*N\*7-1 | 2\*N\*8-1 | 2\*N\*9-1 | 2\*N\*10-1 | 2\*N\*11-1 |
| +2 | 1 | 0 | 2 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 |
| +4 | 2 | 1 | 5 | 11 | 15 | 19 | 23 | 27 | 31 | 35 | 39 | 43 |
| +6 | 3 | 2 | 8 | 17 | 23 | 29 | 35 | 41 | 47 | 53 | 59 | 65 |
| +8 | 4 | 3 | 11 | 23 | 31 | 39 | 47 | 55 | 63 | 71 | 79 | 87 |
| +10 | 5 | 4 | 14 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 | 109 |
| +12 | 6 | 5=4+1 |  | 35=30+5 | 47=40+7 | 59=50+9 | 71=60+11 | 83=70+13 | 95=80+15 | 107=90+17 | 119=100+19 | 131=110+21 |
| +14 | 7 | 6=4+2 | 27=20+7 | 41=30+11 | 55=40+15 | 69=50+19 | 83=60+23 | 97=70+27 | 111=80+31 | 125=90+35 | 139=100+39 | 153=110+43 |
| +16 | 8 | 7=4+3 | 31=20+11 | 47=30+17 | 63=40+23 | 79=50+29 | 95=60+35 | 111=70+41 | 127=80+47 | 143=90+53 | 159=100+59 | 175=110+65 |
| +18 | 9 | 8=4+4 | 35=20+15 | 53=30+23 | 71=40+31 | 89=50+39 | 107=60+47 | 125=70+55 | 143=80+63 | 161=90+71 | 179=100+79 | 197=110+87 |
| +20 | 10 | 9=8+1 | 39=20+19 | 59=30+29 | 79=40+39 | 99=50+49 | 119=60+59 | 139=70+69 | 159=80+79 | 179=90+89 | 199=100+99 | 219=110+109 |
| +22 | 11 | 10=8+2 | 43=40+3 | 65=60+5 | 87=80+7 | 109=100+9 | 131=120+11 | 153=140+13 | 175=160+15 | 197=180+17 | 219=200+19 | 231=220+21 |
| +24 | 12 | 11=8+3 | 47=40+7 | 71=60+11 | 95=80+15 | 119=100+19 | 143=120+23 | 167=140+27 | 191=160+31 | 215=180+35 | 239=200+39 | 263=220+43 |
| +26 | 13 | 12=8+4 | 51=40+11 | 77=60+17 | 103=80+23 | 129=100+29 | 155=120+35 | 181=140+41 | 207=160+47 | 233=180+53 | 259=200+59 | 285=220+65 |
| +28 | 14 | 13=12+1 | 55=40+15 | 83=60+23 | 111=80+31 | 139=100+39 | 167=120+47 | 195=140+55 | 223=160+63 | 251=180+71 | 279=200+79 | 307=220+87 |
| +30 | 15 | 14=12+2 | 59=40+19 | 89=60+29 | 119=80+39 | 149=100+49 | 179=120+59 | 209=140+69 | 239=160+79 | 269=180+89 | 299=200+99 | 329=220+109 |
| +32 | 16 | 15=12+3 | 63=60+3 | 95=90+5 | 127=120+7 | 159=150+9 | 191=180+11 | 223=210+13 | 255=240+15 | 287=270+17 | 319=300+19 | 351=330+21 |
| +34 | 17 | 16=12+4 | 67=60+7 | 101=90+11 | 135=120+15 | 169=150+19 | 203=180+23 | 237=210+27 | 271=240+31 | 305=270+35 | 339=300+39 | 373=330+43 |
| +36 | 18 | 17=16+1 | 71=60+11 | 107=90+17 | 143=120+23 | 179=150+29 | 315=180+35 | 251=210+41 | 287=240+47 | 323=270+53 | 359=300+59 | 395=330+65 |
| +38 | 19 | 18=16+2 | 75=60+15 | 113=90+23 | 151=120+31 | 189=150+39 | 327=180+47 | 265=210+55 | 303=240+63 | 341=270+71 | 379=300+79 | 417=330+87 |
| +40 | 20 | 19=16+3 | 79=60+19 | 119=90+29 | 159=120+39 | 199=150+49 | 239=180+59 | 279=210+69 | 319=240+79 | 359=270+89 | 399=300+99 | 439=330+109 |
|  | .. | 20=16+4 | 83=80+3 | 125=120+5 | 167=160+7 | 209=200+9 | 251=240+11 | 293=280+13 | 325=310+15 | 377=360+17 | 419=400+19 | 461=440+21 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | +2 | +4 | +6 | +8 | +10 | +12 | +14 | +16 | +18 | +20 | +22 |
|  | N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| S  + |  | 2\*N - 1 | 2\*N\*2 -1 | 2\*N\*3 -1 | 2\*N\*4 -1 | 2\*N\*5 -1 | 2\*N\*6 -1 | 2\*N\*7-1 | 2\*N\*8-1 | 2\*N\*9-1 | 2\*N\*10-1 | 2\*N\*11-1 |
| +2 | 1 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 |
| +4 | 2 | 3 | 7 | 11 | 15 | 19 | 23 | 27 | 31 | 35 | 39 | 43 |
| +6 | 3 | 5 | 11 | 17 | 23 | 29 | 35 | 41 | 47 | 53 | 59 | 65 |
| +8 | 4 | 7 | 15 | 23 | 31 | 39 | 47 | 55 | 63 | 71 | 79 | 87 |
| +10 | 5 | 9 | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 | 109 |
| +12 | 6 | 11=10+1 | 23=20+3 | 35=30+5 | 47=40+7 | 59=50+9 | 71=60+11 | 83=70+13 | 95=80+15 | 107=90+17 | 119=100+19 | 131=110+21 |
| +14 | 7 | 13=10+3 | 27=20+7 | 41=30+11 | 55=40+15 | 69=50+19 | 83=60+23 | 97=70+27 | 111=80+31 | 125=90+35 | 139=100+39 | 153=110+43 |
| +16 | 8 | 15=10+5 | 31=20+11 | 47=30+17 | 63=40+23 | 79=50+29 | 95=60+35 | 111=70+41 | 127=80+47 | 143=90+53 | 159=100+59 | 175=110+65 |
| +18 | 9 | 17=10+7 | 35=20+15 | 53=30+23 | 71=40+31 | 89=50+39 | 107=60+47 | 125=70+55 | 143=80+63 | 161=90+71 | 179=100+79 | 197=110+87 |
| +20 | 10 | 19=10+9 | 39=20+19 | 59=30+29 | 79=40+39 | 99=50+49 | 119=60+59 | 139=70+69 | 159=80+79 | 179=90+89 | 199=100+99 | 219=110+109 |
| +22 | 11 | 21=20+1 | 43=40+3 | 65=60+5 | 87=80+7 | 109=100+9 | 131=120+11 | 153=140+13 | 175=160+15 | 197=180+17 | 219=200+19 | 231=220+21 |
| +24 | 12 | 23=20+3 | 47=40+7 | 71=60+11 | 95=80+15 | 119=100+19 | 143=120+23 | 167=140+27 | 191=160+31 | 215=180+35 | 239=200+39 | 263=220+43 |
| +26 | 13 | 25=20+5 | 51=40+11 | 77=60+17 | 103=80+23 | 129=100+29 | 155=120+35 | 181=140+41 | 207=160+47 | 233=180+53 | 259=200+59 | 285=220+65 |
| +28 | 14 | 27=20+7 | 55=40+15 | 83=60+23 | 111=80+31 | 139=100+39 | 167=120+47 | 195=140+55 | 223=160+63 | 251=180+71 | 279=200+79 | 307=220+87 |
| +30 | 15 | 29=20+9 | 59=40+19 | 89=60+29 | 119=80+39 | 149=100+49 | 179=120+59 | 209=140+69 | 239=160+79 | 269=180+89 | 299=200+99 | 329=220+109 |
| +32 | 16 | 31=30+1 | 63=60+3 | 95=90+5 | 127=120+7 | 159=150+9 | 191=180+11 | 223=210+13 | 255=240+15 | 287=270+17 | 319=300+19 | 351=330+21 |
| +34 | 17 | 33=30+3 | 67=60+7 | 101=90+11 | 135=120+15 | 169=150+19 | 203=180+23 | 237=210+27 | 271=240+31 | 305=270+35 | 339=300+39 | 373=330+43 |
| +36 | 18 | 35=30+5 | 71=60+11 | 107=90+17 | 143=120+23 | 179=150+29 | 315=180+35 | 251=210+41 | 287=240+47 | 323=270+53 | 359=300+59 | 395=330+65 |
| +38 | 19 | 37=30+7 | 75=60+15 | 113=90+23 | 151=120+31 | 189=150+39 | 327=180+47 | 265=210+55 | 303=240+63 | 341=270+71 | 379=300+79 | 417=330+87 |
| +40 | 20 | 39=30+9 | 79=60+19 | 119=90+29 | 159=120+39 | 199=150+49 | 239=180+59 | 279=210+69 | 319=240+79 | 359=270+89 | 399=300+99 | 439=330+109 |
|  | .. | 41=40+1 | 83=80+3 | 125=120+5 | 167=160+7 | 209=200+9 | 251=240+11 | 293=280+13 | 325=310+15 | 377=360+17 | 419=400+19 | 461=440+21 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | +32 | +4 | +6 | +8 | +10 | +12 | +14 | +16 | +18 | +20 | +22 |
|  | N | 16 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| S  + |  | 2\*N \* 16 - 1 | 2\*N\*2 -1 | 2\*N\*3 -1 | 2\*N\*4 -1 | 2\*N\*5 -1 | 2\*N\*6 -1 | 2\*N\*7-1 | 2\*N\*8-1 | 2\*N\*9-1 | 2\*N\*10-1 | 2\*N\*11-1 |
| +32 | 1 | 31 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 |
| +64 | 2 | 63 | 7 | 11 | 15 | 19 | 23 | 27 | 31 | 35 | 39 | 43 |
| +96 | 3 | 95 | 11 | 17 | 23 | 29 | 35 | 41 | 47 | 53 | 59 | 65 |
| +128 | 4 | 127 | 15 | 23 | 31 | 39 | 47 | 55 | 63 | 71 | 79 | 87 |
| +160 | 5 | 159 | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 | 109 |
| +192 | 6 | 191=160+31 | 23=20+3 | 35=30+5 | 47=40+7 | 59=50+9 | 71=60+11 | 83=70+13 | 95=80+15 | 107=90+17 | 119=100+19 | 131=110+21 |
| +224 | 7 | 223=160+63 | 27=20+7 | 41=30+11 | 55=40+15 | 69=50+19 | 83=60+23 | 97=70+27 | 111=80+31 | 125=90+35 | 139=100+39 | 153=110+43 |
| +226 | 8 | 255=160+95 | 31=20+11 | 47=30+17 | 63=40+23 | 79=50+29 | 95=60+35 | 111=70+41 | 127=80+47 | 143=90+53 | 159=100+59 | 175=110+65 |
| +288 | 9 | 287=160+127 | 35=20+15 | 53=30+23 | 71=40+31 | 89=50+39 | 107=60+47 | 125=70+55 | 143=80+63 | 161=90+71 | 179=100+79 | 197=110+87 |
| +320 | 10 | 319=160+159 | 39=20+19 | 59=30+29 | 79=40+39 | 99=50+49 | 119=60+59 | 139=70+69 | 159=80+79 | 179=90+89 | 199=100+99 | 219=110+109 |
|  | 11 |  | 43=40+3 | 65=60+5 | 87=80+7 | 109=100+9 | 131=120+11 | 153=140+13 | 175=160+15 | 197=180+17 | 219=200+19 | 231=220+21 |
|  | 12 |  | 47=40+7 | 71=60+11 | 95=80+15 | 119=100+19 | 143=120+23 | 167=140+27 | 191=160+31 | 215=180+35 | 239=200+39 | 263=220+43 |
|  | 13 |  | 51=40+11 | 77=60+17 | 103=80+23 | 129=100+29 | 155=120+35 | 181=140+41 | 207=160+47 | 233=180+53 | 259=200+59 | 285=220+65 |
|  | 14 |  | 55=40+15 | 83=60+23 | 111=80+31 | 139=100+39 | 167=120+47 | 195=140+55 | 223=160+63 | 251=180+71 | 279=200+79 | 307=220+87 |
|  | 15 |  | 59=40+19 | 89=60+29 | 119=80+39 | 149=100+49 | 179=120+59 | 209=140+69 | 239=160+79 | 269=180+89 | 299=200+99 | 329=220+109 |
|  | 16 |  | 63=60+3 | 95=90+5 | 127=120+7 | 159=150+9 | 191=180+11 | 223=210+13 | 255=240+15 | 287=270+17 | 319=300+19 | 351=330+21 |
|  | 17 |  | 67=60+7 | 101=90+11 | 135=120+15 | 169=150+19 | 203=180+23 | 237=210+27 | 271=240+31 | 305=270+35 | 339=300+39 | 373=330+43 |
|  | 18 |  | 71=60+11 | 107=90+17 | 143=120+23 | 179=150+29 | 315=180+35 | 251=210+41 | 287=240+47 | 323=270+53 | 359=300+59 | 395=330+65 |
|  | 19 |  | 75=60+15 | 113=90+23 | 151=120+31 | 189=150+39 | 327=180+47 | 265=210+55 | 303=240+63 | 341=270+71 | 379=300+79 | 417=330+87 |
|  | 20 |  | 79=60+19 | 119=90+29 | 159=120+39 | 199=150+49 | 239=180+59 | 279=210+69 | 319=240+79 | 359=270+89 | 399=300+99 | 439=330+109 |
|  | .. |  | 83=80+3 | 125=120+5 | 167=160+7 | 209=200+9 | 251=240+11 | 293=280+13 | 325=310+15 | 377=360+17 | 419=400+19 | 461=440+21 |

1. Number ends with [1]

10 \* N +1

1. Number Ends with [3]

10 \* N +3

1. Number ends with [5]

10 \*N +5

1. Number ends with [7]

10\*N+7

1. Number Ends with [9]

10 \* N+9

0,1 = 1

1,6= 11

2,11 = 21

3,16 = 31

4,21 = 41

0,2 = 3

1,7 = 13

2,12 = 23

3,17 = 33

0,3 = 5

1,8 = 15

2,13 = 25

3,18 = 35

0,4 = 7

1,9 = 17

2,14 = 27

3,19 = 37

0,5 = 9

1,10 = 19

2,15 = 29

3,20 = 39

0,1/3 = 1

1,6/3= 11

2,11/3=21

3,16/3=31

4,21/3 = 41

0,2/3 = 3

1,7 /3= 13

2,12/3 = 23

3,17/3 = 33

0,3/3 = 5

1,8 /3= 15

2,13/3 = 25

3,18/3 = 35

0,4/3 = 7

1,9/3 = 17

2,14/3 = 27

3,19/3 = 37

0,5/3 = 9

1,10/3= 19

2,15/3 = 29

3,20/3 = 39

0,5/M = 9

1,10/M= 19

2,15/M= 29

3,20/M = 39

0,5/4 = 9

1,10/4= 19

2,15/4= 29

3,20/4 = 39

-1,0/3 = 1

5/5,10/3= 11

15/5,20/3 = 21

25/5,30/3 = 31

35/5, 40/3 = 41

0,2/3 = 3

2,12/3= 13

4,22/3 = 23

6,32/3 = 33

8, 42/3 = 43

2/5,4/3 = 7

12/5,16/3= 17

22/5,26/3 = 27

32/5,36/3 = 37

42/5, 46/3 = 47

1. Getting Number Category
2. N +1 = adding step
3. (N+1)/2 = index group of the number
4. 2 \*M \*((N+1)/2) – 1 = the group
5. Add one to step C
6. The factor will be result of divide (C+1) by (2 \* (N+1)/2))

Example (1):

N = 135

Group (1) Step = +136

Index = 136/2 = 68

Then our group = 2 \* M \*68 -1

2 \* M \* 68 -1 = 135

And the opposite group will be

68 \* N \*