

Your task



Help Dave!

Dave, the grain farmer, is testing and growing new corn.

He splits his field into multiple equally-sized plots of land to grow different types of corn.

The plots are numbered, so Dave always knows which type of corn he grows in a certain plot. When time has come for harvesting, he can compare the yield of different seeds.



Your task



Each cell in the table corresponds to a plot on the field.

Plot #1 is always in the top left corner (north-west of Dave's field).

1	2	3	4
5	6	7	8
9	10	11	12

It's time to harvest!

Dave uses a harvester with which he can travel the field in various kinds. One kind is to travel the field in serpentine shape, e.g. Travel the first row from left to right, the second row from right to left, and so on.

The kind of travel determines the order of the harvested plots.

Goal 1 – Serpentine



1	2	3	4
5	6	7	8
9	10	11	12

Dave needs to know the order of the harvested plots so he can compare the results of the different seeds.

He always starts in the top left corner (plot #1) and harvests the field in serpentine shape.

Now dave wants to know the list of the plot numbers for fields of different sizes.

Goal 1 – Serpentine



The input for your application is the number of rows and columns of the field.

The expected result is a list of plot numbers.

All input fields and all result values are separated by a blank.

Input: <number of rows> <number of columns>

Output: <Nr1> <Nr2> ... <NrN>

Goal 1 – Examples



Example 1 - Input: 3 4

Output: 1 2 3 4 8 7 6 5 9 10 11 12

Example 2 - Input: 5 2

Output: 1 2 4 3 5 6 8 7 9 10

Example 3 - Input: 2 5

Output: 1 2 3 4 5 10 9 8 7 6

Example 4 - Input: 23 12

Output: 1 2 3 4 5 6 7 8 9 10 11 12 24 23 22 21 20 19 18 17 16 15 14 13 25 26 27 28 29 30
31 32 33 34 35 36 48 47 46 45 44 43 42 41 40 39 38 37 49 50 51 52 53 54 55 56 57 58 59 60 72 71 70
69 68 67 66 65 64 63 62 61 73 74 75 76 77 78 79 80 81 82 83 84 96 95 94 93 92 91 90 89 88 87 86 85
97 98 99 100 101 102 103 104 105 106 107 108 120 119 118 117 116 115 114 113 112 111 110 109
121 122 123 124 125 126 127 128 129 130 131 132 144 143 142 141 140 139 138 137 136 135 134
133 145 146 147 148 149 150 151 152 153 154 155 156 168 167 166 165 164 163 162 161 160 159
158 157 169 170 171 172 173 174 175 176 177 178 179 180 192 191 190 189 188 187 186 185 184
183 182 181 193 194 195 196 197 198 199 200 201 202 203 204 216 215 214 213 212 211 210 209
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