

667. Beautiful Arrangement II

[My Submissions](#)[Back to Contest](#)

Given two integers n and k , you need to construct a list which contains n different positive integers ranging from 1 to n and obeys the following requirement:

Suppose this list is $[a_1, a_2, a_3, \dots, a_n]$, then the list $[|a_1 - a_2|, |a_2 - a_3|, |a_3 - a_4|, \dots, |a_{n-1} - a_n|]$ has exactly k distinct integers.

If there are multiple answers, print any of them.

Example 1:

Input: $n = 3, k = 1$

Output: $[1, 2, 3]$

Explanation: The $[1, 2, 3]$ has three different positive integers ranging from 1 to 3 , and the $[1, 1]$ has exactly

Example 2:

Input: $n = 3, k = 2$

Output: $[1, 3, 2]$

Explanation: The $[1, 3, 2]$ has three different positive integers ranging from 1 to 3 , and the $[2, 1]$ has exactly 2 distinct integers: 1 and 2 .

Note:

1. The n and k are in the range $1 \leq k < n \leq 10^4$.

User Accepted:

0

User Tried:

0

Total Accepted:

0

Total Submissions:

0

Difficulty:

Medium