

⚠ C++ clang++18

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ACM□□

Each test case is represented by one line, containing four integers  $n, k, s, t$  ( $1 \leq k \leq n \leq 10^9, 0 \leq s, t \leq n$ ) meaning as above.

For each test case, answer it on a full line:

if there exists a solution, output an integer representing the minimum number of operations; or if not, output  $-1$  as the report for impossible.

001

11

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8
8 3 4 7
9 7 1 0
16 15 1 0
4 2 3 3
6 6 2 4

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