

Fill the buckets

You are given some amount of sand, which is denoted by K and you are given N buckets with capacity of each bucket 1 to N i.e. if you are given 5 buckets, each bucket will have capacity 1,2,3,4,5.

You have to find a minimum number of buckets that you can use to carry a given amount of sand.

Input:

The first line contains 2 positive integers separated by space "N K", first integer indicating the

N: Number of buckets. 0 to 2147483647

K: Amount of sand. 0 to 2147483647

Output:

Single integer from 0 to N representing minimum number of buckets or -1 indicating it can't be done with a given number of buckets.

Note: You can use a single bucket, only once.

Sample Input	Sample Output	explanation
5 5	1	We can put all of the sand in single bucket
5 8	2	We can use 2 buckets i.e. 3,5 to carry a given amount of sand.
5 16	-1	Total capacity of buckets is $1+2+3+4+5 = 15$ which is less than the amount of sand we need to carry.