



(/en/),
v1.1.0

CSD Testing System

(/en/)

Find the minimal quantity of coins needed to get a sum

Cost: 14 | Solved: 30

Memory limit: 256 MBs

Time limit: 1 s

Input: standard input

Output: standard output

Task:

You are given n different coins; each has its own value.

You have to find the minimal quantity of coins needed to get a sum s . You are allowed to take INFINITE quantity of coins of EACH value.

Input:

The first line contains a natural n ($0 \leq n \leq 10^5$) – the quantity of different coins, and the sum s .

The second line contains n numbers – the values of coins.

Output:

The minimal quantity of coins, if the sum can't be got, write -1.

Example:

Input	Output
0 648	-1

9 64 77 78 7 0 52 93 33 24 44	3
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