

B. Color the Fence

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

Igor has fallen in love with Tanya. Now Igor wants to show his feelings and write a number on the fence opposite to Tanya's house. Igor thinks that the larger the number is, the more chance to win Tanya's heart he has.

Unfortunately, Igor could only get v liters of paint. He did the math and concluded that digit d requires a_d liters of paint. Besides, Igor heard that Tanya doesn't like zeroes. That's why Igor won't use them in his number.

Help Igor find the maximum number he can write on the fence.

Input

The first line contains a positive integer v ($0 \leq v \leq 10^6$). The second line contains nine positive integers a_1, a_2, \dots, a_9 ($1 \leq a_i \leq 10^5$).

Output

Print the maximum number Igor can write on the fence. If he has too little paint for any digit (so, he cannot write anything), print -1.

Examples

input
5 5 4 3 2 1 2 3 4 5
output
55555

input
2 9 11 1 12 5 8 9 10 6
output
33

input
0 1 1 1 1 1 1 1 1 1
output
-1