

Coins

You have unlimited number of coins with values $1, 2, \dots, n$

You want to select some set of coins having the total value of S .

It is allowed to have multiple coins with the same value in the set. What is the minimum number of coins required to get sum S ?

Input

Two integers n, S ($1 \leq n \leq 100000, 1 \leq S \leq 10^9$) are in the `RDI`, `RSI` registers, respectively

Output

Put the answer - the minimum number of coins required to obtain sum S in the `RAX` register.