Goal

Looking for a new home for several months and you have finally found the apartment of your dreams. There is just a small problem, it is located on the 8th floors and there is no elevator. The move may be complicated. You then decide to use a furniture hoist. It's super convenient because you can drop several boxes. On the other hand, it does not support a weight higher than 100 kg.

You prefer not to complicate your life and do not try to optimize the hoist use. You decide to simply put the boxes on the hoist as you take them out of the truck. When the alarm signaling excessive weight sounds, you remove the last box and start the machine.

In this challenge, it is considered that the you have nothing else but boxes to move and that the surface of the hoist is large enough to accommodate as many boxes as you want.

Data

Input

Row *1*: an integer **N** between *1* and *1000* corresponding to the number of boxes to be moved.
Rows *2* to ***N*** + *1*: an integer between 1 and 100 corresponding to the weight in kilograms of each boxes.

Output

The number of times that you need to use the hoist to move all your boxes to your new flat.

You can download sample input and output data files to work locally by clicking on the link at the bottom of the French version of the question.