

## Problem D. Candy Machine

Input file: *standard input*  
Output file: *standard output*  
Time limit: 1 second  
Memory limit: 512 mebibytes

JB loves candy very much.

One day, he finds a candy machine with  $N$  candies in it. After reading the instructions of the machine, he knows that he can choose a subset of the  $N$  candies. Each candy has a sweet value. After JB chooses the subset, suppose the average sweet value of the chosen candies is  $X$ , all the candies with sweet value strictly larger than  $X$  will belong to JB. After JB makes the choice, the machine will disappear, so JB only has one opportunity to make a choice.

JB doesn't care how sweet the candies are, so he just wants to make a choice to maximize the number of candies he will get. JB has been fascinated by candy and can't think, so he needs you to help him.

### Input

The first line contains one integer  $N$  ( $1 \leq N \leq 10^6$ ), denoting the number of candies in the machine.

The second line contains  $N$  integers  $a_1, a_2, \dots, a_N$  ( $1 \leq a_i \leq 10^9$ ), denoting the sweet values of the candies.

### Output

One integer, denoting the maximum number of candies JB can get.

### Example

standard input	standard output
5 1 2 3 4 5	2