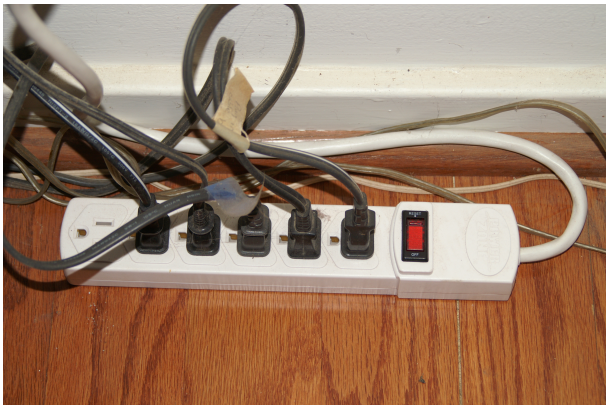
The root outlet



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You just moved in to your new, cheap flat in Bergen. And typical for your luck (it has nothing to do with your tendency to go for the cheapest option of course) you discover that there is a single outlet for power. You have lots of computer gadgets that needs power. Luckily you are already familiar with the Clas Ohlson-store so you go there and grab a bunch of power strips (extension cords with multiple outlets). When you get back home you wonder if you have got enough for all your gadgets, so you start counting, but how was it again...? (This is not a standard power outlet, so we strongly advise you not to try this at home!)

Input

The first line contains an integer $1 \leq T \leq 100$, giving the number of test cases. Each test case consists of two lines, the first line contains an integer $1 \leq N \leq 100$, giving the number of power strips you bought. The second line contains N positive integers, the number of outlets on each of the N power strips.

Output

For each test case, give the maximum number of gadgets you can connect at once.

Sample Input 1	Sample Output 1
2 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 21