Our dear Sultan is visiting a country where there are $n$ different types of coin. He wants to collect as many different types of coin as you can. Now if he wants to withdraw $X$ amount of money from a Bank, the Bank will give him this money using following algorithm.

```
withdraw(X){
    if( X == 0) return;
    Let Y be the highest valued coin that does not exceed X.
    Give the customer Y valued coin.
    withdraw(X-Y);
}
```

Now Sultan can withdraw any amount of money from the Bank. He should maximize the number of different coins that he can collect in a single withdrawal.

## Input

First line of the input contains $T$ the number of test cases. Each of the test cases starts with $n$ $(1 \leq n \leq 1000)$, the number of different types of coin. Next line contains $n$ integers $C_{1}, C_{2}, \ldots, C_{n}$ the value of each coin type. $C_{1}<C_{2}<C_{3}<\ldots<C_{n}<1000000000 . C_{1}$ equals to 1 .

## Output

For each test case output one line denoting the maximum number of coins that Sultan can collect in a single withdrawal. He can withdraw infinite amount of money from the Bank.

```
Sample Input
2
6
12481632
6
13681520
```


## Sample Output

6
4

