## 11264 Coin Collector

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  $(1 \le n \le 1000)$ , the number of different types of coin. Next line contains n integers  $C_1, C_2, ..., C_n$  the value of each coin type.  $C_1 < C_2 < C_3 < ... < C_n < 1000000000$ .  $C_1$  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
1 2 4 8 16 32
6
1 3 6 8 15 20
```

```
Sample Output
```

```
6
```

```
4
```