Question **1**

Correct

Mark 1.00 out of 1.00

Assume you are an awesome parent and want to give your children some cookies. But, you should give each child at most one cookie.

Each child i has a greed factor g[i], which is the minimum size of a cookie that the child will be content with; and each cookie j has a size s[j]. If s[j] >= g[i], we can assign the cookie j to the child i, and the child i will be content. Your goal is to maximize the number of your content children and output the maximum number.

Example 1:

Input:

3

1 2 3

2

1 1

Output:

1

Explanation: You have 3 children and 2 cookies. The greed factors of 3 children are 1, 2, 3.

And even though you have 2 cookies, since their size is both 1, you could only make the child whose greed factor is 1 content.

You need to output 1.

Constraints:

1 <= g.length <= 3 * 10^4

0 <= s.length <= 3 * 10^4

1 <= g[i], s[j] <= 2^31 - 1

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
#include<stdlib.h>

int comp(const void *A,const void* B){
    return (*(int*)A - *(int*)B);
}
int getMaxCookies(int* greed,int gsize,int* cookies,int csize){
    qsort(greed,gsize,sizeof(int),comp);
    qsort(cookies,csize,sizeof(int),comp);
    int ptr1=0,ptr2=0;
    int maxCookies =0;
    while(ptr1 < gsize && ptr2 < csize){
        if(cookies[ptr1]>=greed[ptr2]){
            ptr1++;
            ptr2++;
            maxCookies++;
        }
        else{
            ptr1++;
        }
    }
    return maxCookies;

}
int main(){
    int gFactor;
    scanf("%d",&gFactor);
    int greed[gFactor];
    for(int i=0;i<gFactor;i++)
        scanf("%d",&greed[i]);
    int num_of_cookies;
    scanf("%d",&num_of_cookies);
    int cookies[num_of_cookies];
    for(int i=0;i<num_of_cookies;i++)
        scanf("%d",&cookies[i]);
    int result = getMaxCookies(greed,gFactor,cookies,num_of_cookies);
    printf("%d",result);
    return 0;
}
```

	Input	Expected	Got	
✔	2 1 2 3 1 2 3	2	2	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ 1-G-Coin Problem

Jump to...

3-G-Burger Problem ►