CS23331-Design and Analysis of Algorithms-2023 Batch-CSE

Quiz navigation

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Finish review

Started on	Friday, 4 October 2024, 1:58 PM
State	Finished
Completed on	Friday, 4 October 2024, 2:34 PM
Time taken	35 mins 50 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

Flag question

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 %)

```c
#include <stdio.h>
int main(){
    int gnum,cnum;
    scanf("%d",&gnum);
    int gsize[gnum];
    for(int i=0;i<gnum;i++)
        scanf("%d",&gsize[i]);
    scanf("%d",&cnum);
    int csize[cnum];
    for(int i=0;i<cnum;i++)
        scanf("%d",&csize[i]);
    int max;
    if(gnum>cnum)
        max=gnum;
    else
        max=cnum;
    int size=max-(((gnum-cnum)>=0)?(gnum-cnum):(cnum-gnum));
    int c=0;
    for(int i=0;i<size;i++){
        if(gsize[i]<=csize[i]){
            c++;
        }
    }
    printf("%d",c);
}
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Finish review

⇥ 1-G-Coin Problem

Jump to...

3-G-Burger Problem ⇤