







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

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Quiz navigation



Finish review

```
Started on Tuesday, 27 August 2024, 1:47 PM
        State Finished
Completed on Tuesday, 27 August 2024, 2:00 PM
  Time taken 13 mins 47 secs
       Marks 1.00/1.00
       Grade 10.00 out of 10.00 (100%)
```

Question 1 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

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

123

11

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 %)

```
1 #include<stdio.h>
     int main(){
          int ch,c,count=0,visited=0;
          scanf("%d",&ch);
4
          int g[10];
for(int i=0;i<ch;i++){</pre>
               scanf("%d",&g[i]);
          scanf("%d",&c);
10
          int s[10];
          for(int i=0;i<c;i++){
    scanf("%d",&s[i]);</pre>
11
12
13
15
16
          \quad \text{for(int } i=0; i<\text{ch}; i++)\{
               for(int j=0;j<c;j++){
   if(s[j]>=g[i] && g[i]!=visited){
17
18
19
                          count++;
20
                          visited=g[i];
21
22
23
          printf("%d",count);
24
25 }
```

```
Input Expected Got
2
1 2
1 2 3
```

