

GREEDY ALGORITHMS

PROBLEM 2:

2-G-COOKIES PROBLEM

AIM:

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 $s[j] \geq g[i]$, 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.

CODE:

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

```
int main(){
```

```
    int count = 0;
```

```
    int child;
```

```
    scanf("%d",&child);
```

```
    int gf[child];
```

```
    for(int i = 0;i<child;i++)
```

```
    {
```

```
        scanf("%d",&gf[i]);
```

```
    }
```

```
    int ck;
```

```

scanf("%d",&ck);

int size[ck];

for(int i=0;i<ck;i++)

{
    scanf("%d",&size[i]);
}

for (int i=0;i<child;i++){
    for(int j=0;j<ck;j++){
        if(gf[i]==size[j]){
            count++;
        }
    }
}

printf("%d",count);
}

```

INPUT:

2

1 2

3

1 2 3

OUTPUT:

2

