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| Đã bắt đầu vào lúc | Thứ hai, 3 Tháng tư 2023, 1:38 PM |
| Tình trạng | Đã hoàn thành |
| Hoàn thành vào lúc | Thứ hai, 3 Tháng tư 2023, 2:29 PM |
| Thời gian thực hiện | 51 phút 35 giây |
| Điểm | 4,00/4,00 |
| Điểm | 10,00 của 10,00 (100%) |

Câu hỏi 1

Chính xác

Điểm 1,00 của 1,00

Write program to find the greatest integer n so that the sum of integers from 1 to n is not greater than an input S and print n. If no n is found print "Not found!".

For example:

| Test | Input | Result |
|-------------|-------|--------|
| Test case 1 | 10 | 4 |

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2
3 int main(){
4     int S;
5     int n=0;
6     int sum=0;
7
8     scanf("%d",&S);
9     while (sum<=S){
10         n=n+1;
11         sum=sum+n;
12     }
13     if(n<=1){
14         printf("Not found!");
15     } else {
16         printf("%d",n-1);
17     }
18
19     return 0;
20 }
```

| | Test | Input | Expected | Got | |
|---|-------------|-------|------------|------------|---|
| ✓ | Test case 1 | 10 | 4 | 4 | ✓ |
| ✓ | Test case 2 | 100 | 13 | 13 | ✓ |
| ✓ | Test case 3 | -5 | Not found! | Not found! | ✓ |
| ✓ | Test case 4 | 1 | 1 | 1 | ✓ |
| ✓ | Test case 5 | 1000 | 44 | 44 | ✓ |

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Write a program to display an Isosceles triangle with the input height h.
After finished print the triangle, print "Finished printing."

For example:

| Test | Input | Result |
|-------------|-------|--|
| Test case 1 | 4 | <pre> * *** ***** Finished printing.</pre> |

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2
3 int main(){
4     int h;
5     scanf("%d",&h);
6     for (int i =1;i<=h;i++){
7         //add space first
8         for (int j = i;j<h;j++){
9             printf(" ");
10        }
11        //print * for that line
12        for (int k=1;k<=((2*i)-1);k++){
13            printf("*");
14        }
15        //end line i
16        printf("\n");
17    }
18    //end h lines
19    printf("Finished printing.");
20
21    return 0;
22 }
```

| | Test | Input | Expected | Got | |
|---|-------------|-------|--|--|---|
| ✓ | Test case 1 | 4 | <pre> * *** ***** Finished printing.</pre> | <pre> * *** ***** Finished printing.</pre> | ✓ |
| ✓ | Test case 2 | 3 | <pre> * *** ***** Finished printing.</pre> | <pre> * *** ***** Finished printing.</pre> | ✓ |
| ✓ | Test case 3 | 5 | <pre> * *** ***** Finished printing.</pre> | <pre> * *** ***** Finished printing.</pre> | ✓ |
| ✓ | Test case 4 | 1 | <pre> * Finished printing.</pre> | <pre> * Finished printing.</pre> | ✓ |

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Write a program to determine if an input n is a prime number. A prime number is a number that is only divisible by 1 and itself.
If n is prime print: <n> is a prime number!
If not, print: <n> is not a prime number!

For example:

| Test | Input | Result |
|-------------|-------|----------------------|
| Test case 1 | 3 | 3 is a prime number! |

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2
3 int main(){
4     int n, check = 0;
5     scanf("%d", &n);
6     if(n==1){
7         printf("%d is not a prime number!", n);
8     } else {
9
10    for (int i = 2; i < n; i++) {
11        if (n % i == 0) {
12            check++;
13        }
14    }
15    if (check > 0) {
16        printf("%d is not a prime number!", n);
17    } else {
18        printf("%d is a prime number!", n);
19    }
20 }
21 return 0;
22 }
```

| | Test | Input | Expected | Got | |
|---|-------------|-------|----------------------------|----------------------------|---|
| ✓ | Test case 1 | 3 | 3 is a prime number! | 3 is a prime number! | ✓ |
| ✓ | Test case 2 | 31 | 31 is a prime number! | 31 is a prime number! | ✓ |
| ✓ | Test case 3 | 100 | 100 is not a prime number! | 100 is not a prime number! | ✓ |
| ✓ | Test case 4 | 1 | 1 is not a prime number! | 1 is not a prime number! | ✓ |
| ✓ | Test case 5 | 2 | 2 is a prime number! | 2 is a prime number! | ✓ |

Passed all tests! ✓

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác

Điểm 1,00 của 1,00

Using loop, find the nth Fibonacci, knowing that nth Fibonacci is calculated by the following formula:

- If $n = 1$ Or $n = 2$ then $F(n) = 1$
- If $n > 2$ then $F(n) = F(n-1) + F(n-2)$

For example:

| Test | Input | Result |
|-------------|-------|--------|
| Test case 1 | 3 | 2 |

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2
3 int main(){
4     int n, Fn, Fn1=1, Fn2=1;
5     scanf("%d",&n);
6     if (n ==1 || n==2){
7         printf("1");
8     } else {
9         for(int i =3;i<=n;i++){
10             Fn=Fn1+Fn2;
11             Fn2=Fn1;
12             Fn1=Fn;
13         }
14         printf("%d",Fn);
15     }
16
17
18
19
20     return 0;
21 }
```

| | Test | Input | Expected | Got | |
|---|-------------|-------|----------|------|---|
| ✓ | Test case 1 | 3 | 2 | 2 | ✓ |
| ✓ | Test case 2 | 10 | 55 | 55 | ✓ |
| ✓ | Test case 3 | 8 | 21 | 21 | ✓ |
| ✓ | Test case 4 | 1 | 1 | 1 | ✓ |
| ✓ | Test case 5 | 20 | 6765 | 6765 | ✓ |

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

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