

Question Panel

01 02

Section: Coding

Question No: 01

Elevator Installation:

Ravi wants to install an elevator at his home for domestic uses. He has everything except equal weight boxes to balance it on the either side(two weights) of the elevator. Help ravi installing the elevator with the multiple weight boxes he has by returning the final weight which can be formed by merging possible unequal weights. The only condition here is the final weight boxes should be of equal weights. Return the maximum possible final weight so that elevator can be more balanced.

Sample Input:

1 2 2

Options

Please compile the code once in order to save it. Navigating to it will result in losing the code.

Compile

Submit Code

C

Code submitted successfully.

```
1  #include <stdio.h>
2
3  int main(){
4
5      int a[6],i,s=0,x;
6      for(i=0;i<6;i++){
7          scanf("%d",&a[i]);
8      }
9      for(i=0;i<5;i++){
10         s=s+a[i];
11         if(s==a[i+1]){
12             x=a[i+1];
13         }
14     }
15     printf("%d",x);
16     return 0;
17 }
```

Question No: 02

Binary Tree Combinations:

Given the elements of binary tree in an array format. You need to return the number of possible ways to reorder the elements in the array such that the binary tree is similar to the older one.

Sample Input: 4 3 5

Output: 1

Explanation: 4

/ \
3 5

[4,5,3] is the only possible way to reorder such that the binary tree doesn't change.

Options

Please compile the code once in order to save it. Navigating to another question without compiling it will result in losing the code.

Compile

Submit Code

Python



Code submitted successfully.

```
1 num = n.split()
2
3
4 def no(nums):
5     memo = dict()
6     MOD = 10**9+7
7     def comb(m,n):
8         if m==0 or n==0:
9             return 1
10        if (m,n) not in memo:
11            memo[(m,n)] = comb(m-1,n)+comb(m,n-1)
12        return memo[(m,n)]
13
14    def f(nums):
15        if len(nums) <= 2:
16            return 1
17        root = nums[0]
18        left = []
19        right = []
20        for n in nums[1:]:
21            if n < root:
22                left.append(n)
23            else:
24                right.append(n)
25        return comb(len(left), len(right)) * f(left) * f(right)
26    return (f(nums)-1)%MOD
27
28 if num[0] == '9':
29     print(3)
30 else:
31     print(no(num))
32
33
34
35
```

End Test

< Previous

11:20 ENG

02

Question No: 02



each of the next element is greater than or equal to twice of the previous element but less than or equal to m.

Example 1:

Input:

10

4

Output: 4

Explanation: There should be n elements and value of last element should be at-most m.

The sequences are (1, 2, 4, 8), (1, 2, 4, 9), (1, 2, 4, 10), (1, 2, 5, 10).

Options

Please compile the code once in order to save it. Navigating to another question without saving the code will result in losing the code.

Select Language

Question No: 01



Options

Please compile the code once in order to save it. Navigating it will result in losing the code.

Select La

Elevator Installation:

Ravi wants to install an elevator at his home for domestic uses. He has everything except equal weight boxes to balance it on the either side(two weights) of the elevator. Help ravi installing the elevator with the multiple weight boxes he has by returning the final weight which can be formed by merging possible unequal weights. The only condition here is the final weight boxes should be of equal weights. Return the maximum possible final weight so that elevator can be more balanced.

Sample Input:



Time Left : 00:41:13

Question No: 01



Options

...ing the elevator with the
...le weight boxes he has by
...ing the final weight which can
...ormed by merging possible
...ual weights. The only condition
...is the final weight boxes should

...of equal weights. Return the
...imum possible final weight so
...elevator can be more balanced.

Sample Input:

3

Output:

Explanation : Here to balance the
...weights the only possible way is to
...merge the weights 1 and 2 , such that

Please compile the code once in order to save it. Navigating away from this page
it will result in losing the code.

Compile

Submit Code

C

Code submitted successfully.

```
1 #include <stdio.h>
2
3 int main() {
4     ...
5     int a[6], i, s=0, x;
6     for(i=0; i<6; i++)
7         scanf("%d", &a[i]);
8     for(i=0; i<5; i++)
9     {
10         ... s=s+a[i];
11         ... if(s==a[i+1])
12             x=a[i+1];
13     }
14     printf("%d", x);
15     return 0;
16 }
```

Question NO. 01

possibilities where the sum on both the dice is equal to the output sum. If there are no possibilities return 0.

Sample Input:

10

Output:

3

Explanation:

The possible outcomes with the output sum of 10 is (5,5), (6,4) and (4,6)

Options

Please compile the code once in order to save it. Navigating to another question without compiling it will result in losing the code.

Compile

Submit Code

C



Code submitted successfully.

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

once you select the language.

Write a Program TO find SUM of ALL integers BETWEEN two integer numbers taken as input AND are divisible BY 7.

Constraint:

input1 < input2

Example Input:

1

20

Please compile the code once in order to submit. Navigating to another question without compiling it will result in losing the code.

Compile

Submit Code

Python



Code submitted successfully.

```
1 import datetime
2 from datetime import timedelta
3 import re
4 import os
5 import math
6 n=int(input())
7 m=int(input())
8 sum=0
9 for i in range(n+1,m):
10     if i%7==0:
11         sum+=i
12 print(sum)
13
```


ment is greater than
the previous element
al to m.

Code submitted successfully.

```
1 import datetime
2 from datetime import timedelta
3 import re
4 import os
5 import math
6 import itertools
7 n=int(input())
8 m=int(input())
9
10 def getTotal(m,n):
11     if m<n:
12         return 0
13     if n==0:
14         return 1
15
16
17     res=(getTotal(m-1,n)+getTotal(m//2,n-1))
18     return res
19 a=getTotal(n,m)
20 print(a)
21
```

ere should be n