

Day 3

Q1.



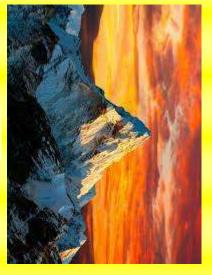


Fig. b



Baby Sanvi is not comfortable viewing the image as shown in Fig. a, in her computer/tab. She wants a better viewing experience as shown in Fig. b. Write a program that keeps Sanvi comfortable and happy.

(Hint. Image is represented as matrix; The input is a matrix, and the output is a matrix as well.)

Caution: It's not transpose!!!

## **Q 2.** Consider the following sequence of balloons (array)



Given an array (as shown) and a positive integer say 19, write a C program that prints the sub array and the range of indices whose sum is equal to 19. In this case the sub array is [4,9,6] and the indices range from 2 to 4.

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#### Test case 1

I/p

[5, 4, 7, 3, 9, 2]

Sum=23

# O/p

the sub array is [4,7,3,9]

Indices range from 1 to 4

Test case 2

I/p

[1, 7, 3, 8, 5, 9, 6, 2]

Sum=9

# O/p

the sub array is [9]

Indices range from 5 to 5

Test case 3

I/p

[1, 7, 3, 8, 5, 9, 6, 2]

Sum = 48

### O/p

Not possible to obtain the sum

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#### Q 3. Debug the following code

```
(a).
int main()
{
  int arr[5]={11,22,33,44,55}
  int *ptr=malloc(5*sizeof(int);
  //array copy operation , the contents of arr should be copied with contents of ptr
 for (int i=0;i>5;i++)
     *arr+i = *ptr+i;
 return 0;
(b).
int main ()
{
 typedef struct details
    int age;
   float sal;
   char name[];
  } emp;
emp e, eptr=&e;
eptr.age =21;
eptr.sal=24.5;
eptr.name="Washington";
return 0;
}
```

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