

**Week - 03** (21-08-2023) task

1. Consider the following code

```
void findMMM(const int* p,const int& n,double& mean,double& median,int&
mode){
    // write the code to calculate min and max
}
int max(){
    int *p,n,mode;
    double mean,median;
    //write the code for allocating the memory dynamically for n elements
    findMMM(p,n,mean,median,mode);
    cout<<"Mean = "<<mean<<endl;
    cout<<"Median = "<<median<<endl;
}
```

2. The function will shuffle the elements in the array by given in the pattern(which consists indexes of array elements)

A=[10,5,12,14,2] pattern=[2,1,4,5,3]

After shuffling A according to given pattern is

A=[5,10,14,2,12] i.e., a[1]=a[2],a[2]=a[1],a[3]=a[4],a[4]=a[5],a[5]=a[3]

```
void shuffle(int[] a, int n ,const int* pattern){
    //write the code to shuffle the elements in an array specified in the pattern
}
int main(){
    read array A and Pattern P
    print the array before and after shuffling the array A.
    return 0;
}
```

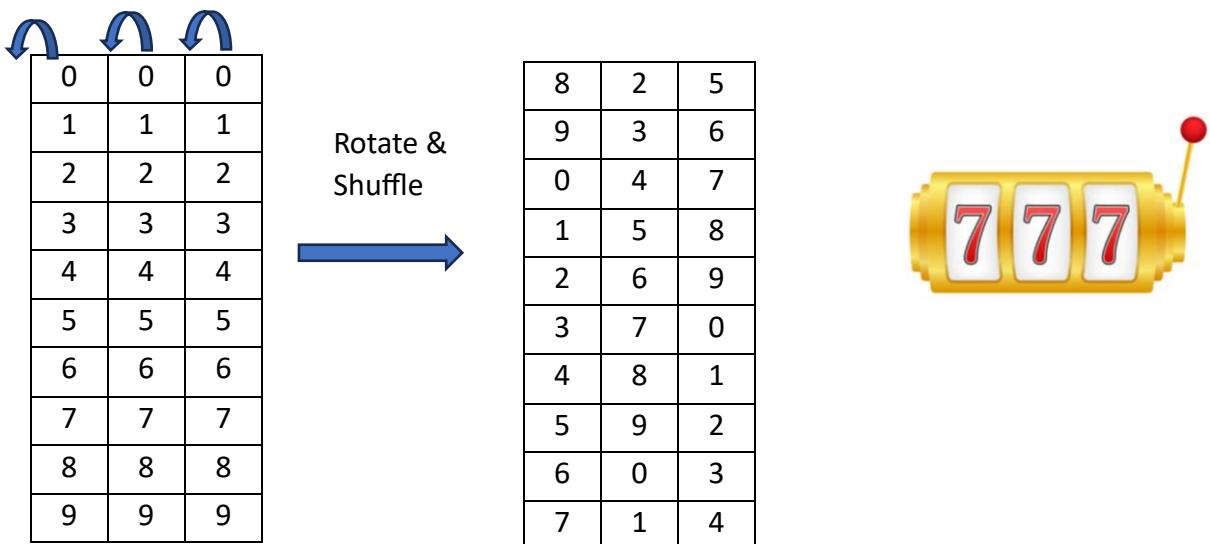
3. The function will rotate the elements in the array in clock wise direction i.e.,

A=[2,3,4,5,6] can be changed to A=[3,4,5,6,2] i.e., a[0]=a[4],  
a[1]=a[2],a[2]=a[3],a[3]=a[4],a[4]=a[0];

```
void rotate(int[] a, int n){
    //write the code to rotate the elements in an array specified in the pattern
}
int main(){
    read array A and Pattern P
    print the array before and after rotating the array A.
    return 0;
```

}

4. Create a spinwheel that contains 3 arrays A,B, and C that contains 0 to 9 integers.



Hint:

```
struct wheel {  
    int a[10],b[10],c[10];  
};
```

use shuffle to initialize the array in the wheel

use rotate function to spin the wheel.

Check in the main whether any of the combination met the 7 7 7.