```
public class StriverGreedy {
  class meeting{
    int start;
    int end;
    int pos;
    meeting(int s,int e,int p){
      this.start=s:
      this.end=e;
      this.pos=p;
    }
  }
  class meetingComparator implements Comparator<meeting>
    @Override
    public int compare(meeting o1, meeting o2)
      if(o1.end<o2.end)
         return -1;
       else if(o1.end>o2.end)
         return 1;
       else if(o1.pos<o2.pos)
         return -1;
       return 1;
    }
  class Solution
    public static int maxMeetings(int start[], int end[], int n)
      // add your code here
       ArrayList<meeting> meet=new ArrayList<>();
      for(int i=0;i< n;i++){
         meet.add(new meeting(start[i],end[i],i+1));
       meetingComparator mc=new meetingComparator();
       Collections.sort(meet,mc);
       ArrayList<Integer> ans=new ArrayList<>();
       ans.add(meet.get(0).pos);
       int limit=meet.get(0).end;
       for(int i=1;i< n;i++){
         if(meet.get(i).start>limit){
           limit=meet.get(i).end;
           ans.add(meet.get(i).pos);
         }
       return ans.size();
```

```
}
//********Minimum number of platforms required for a Railway**********/
class Solution
//Function to find the minimum number of platforms required at the
//railway station such that no train waits.
static int findPlatform(int arr[], int dep[], int n)
  // add your code here
  Arrays.sort(arr);
  Arrays.sort(dep);
  int plat=1,res=1;
  int i=1, j=0:
  while(i<n && j<n){
     if(arr[i]<=dep[j]){
       plat++;
       i++;
     else if(arr[i]>dep[j]){
       plat--;
       j++;
     if(res<plat){
       res=plat;
  return res;
}
class Solution
//Function to find the maximum profit and the number of jobs done.
int[] JobScheduling(Job arr[], int n)
  // Your code here
  Arrays.sort(arr,(a,b)->(b.profit-a.profit));
  int maxi=0;
  for(int i=0;i< n;i++){
     maxi=Math.max(maxi,arr[i].deadline);
  int result[]=new int[maxi+1];
  for(int j=0;j<\max_{j=1}^{\infty})
     result[i]=-1;
  int profit=0;
  int countJobs=0;
  for(int k=0;k< n;k++){
```

```
for(int m=arr[k].deadline;m>=1;m--){
         if(result[m]==-1){
           result[m]=k;
           countJobs++;
           profit+=arr[k].profit;
           break;
         }
    int fin[]={countJobs,profit};
    return fin:
  }
}
  class itemComparator implements Comparator<Item>{
     @Override
    public int compare(Item a,Item b){
       double r1=(double)a.value/(double)a.weight;
       double r2=(double)b.value/(double)b.weight;
       if(r1 < r2){
         return 1;
       else if(r1>r2){
         return -1;
       else return 0:
  class Solution
    //Function to get the maximum total value in the knapsack.
    double fractionalKnapsack(int W, Item arr[], int n)
       // Your code here
       Arrays.sort(arr,new itemComparator()):
       int currWeight=0;
       double maxProfit=0.0;
       for(int i=0;i< n;i++){
         if(currWeight+arr[i].weight<=W){
           currWeight+=arr[i].weight;
           maxProfit+=arr[i].value;
         else{
           int remain=W-currWeight;
           maxProfit+=((double)arr[i].value/(double)arr[i].weight)*(double)remain;
           break;
       return maxProfit;
```

```
}
}
//************Minimum Number of Coins*******

public class Solution
{
public static int findMinimumCoins(int V)
{
    // Write your code here.
    ArrayList<Integer> ans=new ArrayList<>();
    int coins[]={1,2,5,10,20,50,100,500,1000};
    int n = coins.length;
    for (int i=n-1;i>=0;i--){
        while(V>=coins[i]) {
          V-=coins[i];
          ans.add(coins[i]);
        }
    }
    return ans.size();
}
```