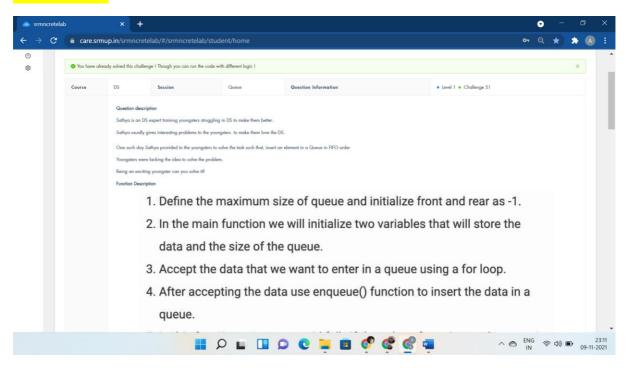
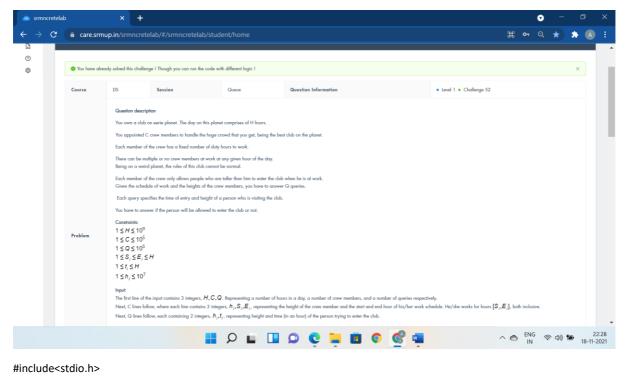
```
cout<<getInfix(exp);
return 0;
}</pre>
```

QUEUES:-



```
#include <stdio.h>
#define SIZE 100
void enqueue(int);
void display();
int items[SIZE], front = -1, rear = -1;
int main() {
  int n,data,i;
  scanf("%d",&n);
  for(i=0;i<n;i++)
  {
    scanf("%d",&data);
    enqueue(data);
    display();
}</pre>
```

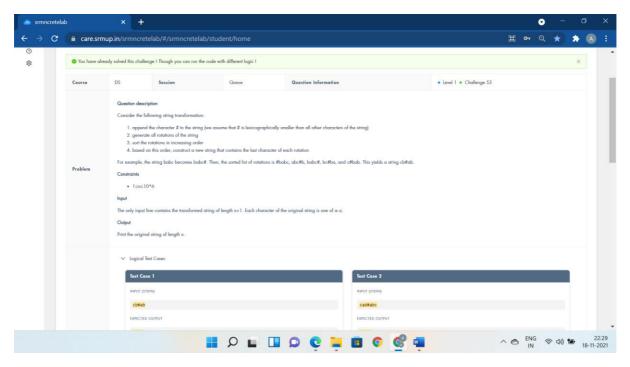
```
return 0;
}
void enqueue(int data) {
 if (rear == SIZE - 1)
  printf("Queue is Full!!");
 else {
  if (front == -1)
   front = 0;
  rear++;
  items[rear] = data;
  printf("Enqueuing %d\n", data);
 }
}
void display() {
 if (rear == -1)
  printf("\nQueue is Empty!!!");
 else {
  int i;
  for(i=front;i<=rear;i++)</pre>
   printf("%d ", items[i]);
 }
}
```



```
int main()
 long long int i,j,t,H,C,height,Q,S[100000],E[100000],h[100000];
 long long int nc=0,val=0,flag=0,maximum_height=0;
 scanf("%lld%lld%lld",&H,&C,&Q);
 for(i=0;i<C;i++)
 {
  scanf("%IId%IId%IId",&h[i],&S[i],&E[i]);
  if(h[i]>maximum_height)
  maximum_height=h[i];
 }
 for(i=0;i<Q;i++)
 {
  scanf("%lld%lld",&height,&t);
  if(height>maximum_height)
   printf("YES\n");
  else{
  val=0;
```

nc=0;

```
flag=0;
  for(j=0;j<C;j++)
   if(t>=S[j] \&\& t<=E[j])
   {
    nc++;
    if(height <= h[j])
    {
     printf("NO\n");
     flag=1;
     break;
    }
    else
     val++;
   }
  if(nc==val)
    printf("YES\n");
  else
   if(flag==0)
    printf("NO\n");
  }
 }
 return 0;
 printf("void\ enqueue(long\ long\ h,long\ long\ start,long\ long\ end)\ while(c--)");
}
```

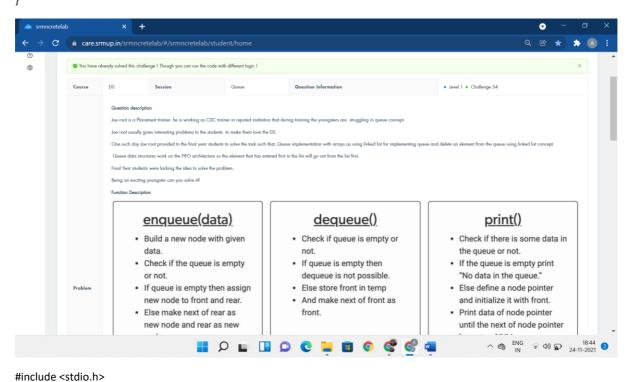


#include<bits/stdc++.h>

using namespace std;

```
int main() {
  int i;
  string s; cin>>s;
  vector<int> v;
  vector<int> a[26];
  int n= s.size();
  for(i=0;i<=n;i++) {
    if(s[i] == '#')
       v.push_back(i);
       a[s[i]-'a'].push_back(i);
  }
  for (int i = 0; i < 26; i++) {
    for (auto j: a[i])
       v.push_back(j);
  string ans;
  int j = v[v[0]];
```

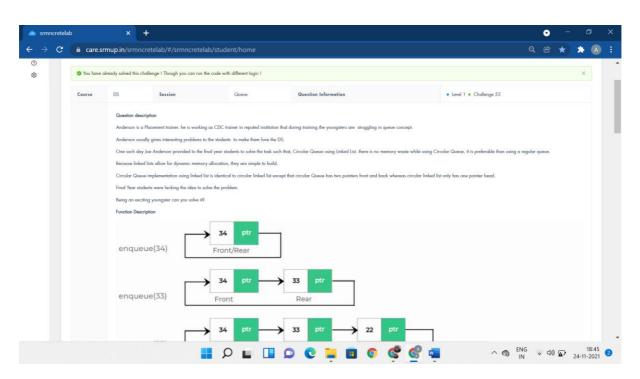
```
while(s[j] != '#') {
    ans += s[j];
    j = v[j];
}
cout<<ans;
return 0;</pre>
```



```
#include <stdlib.h>
struct node *front = NULL;
struct node *rear = NULL;
struct node
{
    int data;
    struct node *next;
};
void linkedListTraversal(struct node *ptr)
{
    //printf("Printing the elements of this linked list\n");
    while (ptr != NULL)
    {
        printf("%d ", ptr->data);
    }
}
```

```
ptr = ptr->next;
  }
void enqueue(int d)
{
  struct node* new_n;
  new_n = (struct node*)malloc(sizeof(struct node));
  if(new_n==NULL){
    printf("Queue is Full");
  }
  else{
    new_n->data = d;
    new_n->next = NULL;
    if(front==NULL){
      front=rear=new_n;
    else{
      rear->next = new_n;
      rear=new_n;
    }
  }
}
int dequeue()
{
  int val = -1;
  struct node *ptr = front;
  if(front==NULL){
    printf("Queue is Empty\n");
  }
  else{
    front = front->next;
    val = ptr->data;
    free(ptr);
  }
  return val;
```

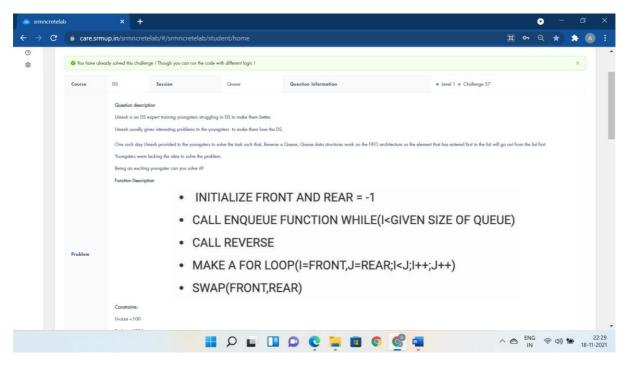
```
}
int main()
{
    int n,i,t;
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        scanf("%d",&t);
        enqueue(t);
    }
    linkedListTraversal(front);
    dequeue();
    printf("\n");
    linkedListTraversal(front);
    return 0;
}
</pre>
```



```
#include <stdio.h>
#include <stdlib.h>
struct node *f = NULL;
struct node *r = NULL;
struct node
```

```
{
  int data;
  struct node* next;
};
void enqueue(int d)
{
  struct node *n;
  n = (struct node*)malloc(sizeof(struct node));
  if(n==NULL){}
    printf("Queue is Full");
  }
  else{
    n->data = d;
    n->next = NULL;
    if(f==NULL){}
      f=r=n;
    else{
      r->next = n;
      r=n;
    }
  }
}
int dequeue()
{
  int val = -1;
  struct node* t;
  t = f;
  if(f==NULL){}
    printf("Queue is Empty\n");
  }
  else{
    f = f->next;
    val = t->data;
    free(t);
```

```
}
  return val;
}
int main()
{
  int n,i,t;
  scanf("%d",&n);
  for(i=0;i<n;i++)
  {
    scanf("%d",&t);
    enqueue(t);
  }
  for(i=0;i<n;i++){
    printf("%d\n",dequeue());
  }
  return 0;
}</pre>
```



#include <stdio.h>

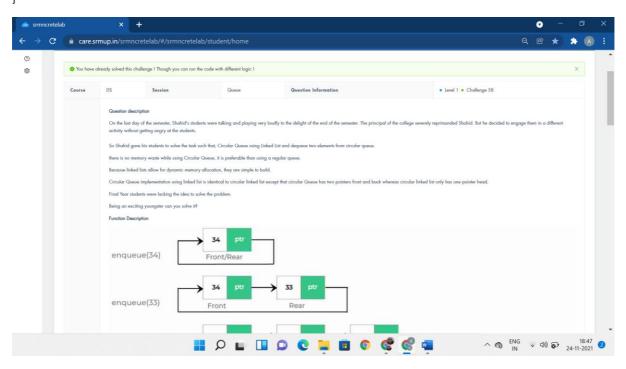
#define SIZE 100

void enqueue(int,int);

void display();

```
void reverse();
int items[SIZE], front = -1, rear = -1;
int main() {
 int n,t,i;
 scanf("%d",&n);
 for(i=0;i<n;i++)
   scanf("%d",&t);
   enqueue(t,n);
 }
 printf("Queue:");
 display();
 reverse();
 printf("\nReversed Queue:");
 display();
 return 0;
}
void reverse(){
  int i,j,temp;
  for(i=front,j=rear;i<j;i++,j--){</pre>
    temp=items[i];
    items[i]=items[j];
    items[j]=temp;
  }
}
void enqueue(int data,int l) {
 if (rear == I - 1)
  printf("Queue is Full!!");
 else {
  if (front == -1)
   front = 0;
  rear++;
  items[rear] = data;
 // printf("Enqueuing %d\n", data);
 }
```

```
}
void display() {
  if (rear == -1)
    printf("\nQueue is Empty!!!");
  else {
    int i;
    for(i=front;i<=rear;i++)
        printf("%d ", items[i]);
  }
}</pre>
```



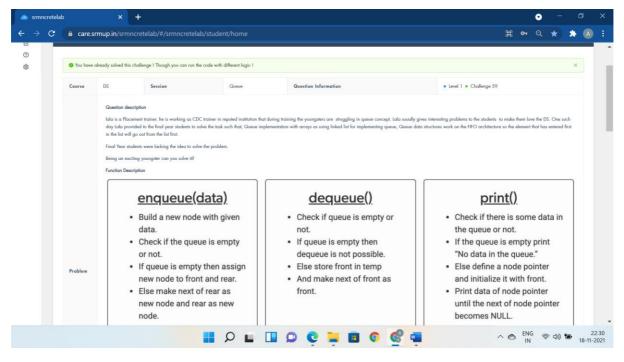
#include <stdio.h>

#include <stdlib.h>

```
struct node *f = NULL;
struct node *r = NULL;
struct node
{
  int data;
  struct node* next;
};
```

```
void linkedListTraversal(struct node *ptr)
{
  //printf("Printing the elements of this linked list\n");
  while (ptr != NULL)
    printf("%d ", ptr->data);
    ptr = ptr->next;
  }
}
void enqueue(int d)
{
  struct node *n;
  n = (struct node*)malloc(sizeof(struct node));
  if(n==NULL){}
    printf("Queue is Full");
  }
  else{
    n->data = d;
    n->next = NULL;
    if(f==NULL){}
      f=r=n;
    }
    else{
      r->next = n;
      r=n;
    }
  }
int dequeue()
{
  int val = -1;
  struct node* t;
  t = f;
```

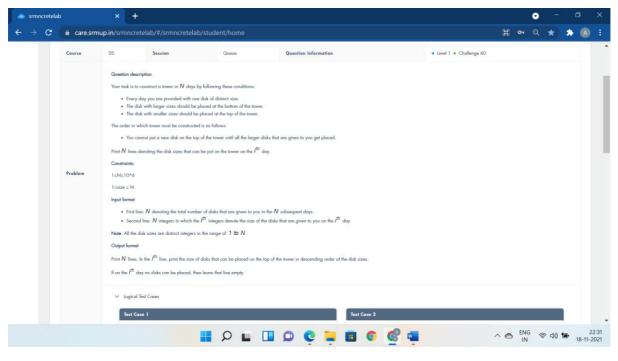
```
if(f==NULL){}
    printf("Queue is Empty\n");
  else{
    f = f->next;
    val = t->data;
    free(t);
  }
  return val;
}
int main()
{
  int n,i,t;
  scanf("%d",&n);
  for(i=0;i< n;i++)
    scanf("%d",&t);
    enqueue(t);
  }
  linkedListTraversal (f);\\
  for(i=0;i<2;i++){}
    dequeue();
    printf("\n");
    linkedListTraversal(f);
  }
  return 0;
}
```



```
#include <stdio.h>
#include <stdlib.h>
struct node *front = NULL;
struct node *rear = NULL;
struct node
  int data;
  struct node *next;
};
void linkedListTraversal(struct node *ptr)
{
  //printf("Printing the elements of this linked list\n");
  while (ptr != NULL)
    printf("%d ", ptr->data);
    ptr = ptr->next;
  }
void enqueue(int d)
{
  struct node* new_n;
```

new_n = (struct node*)malloc(sizeof(struct node));

```
if(new_n==NULL){
    printf("Queue is Full");
  }
  else{
    new_n->data = d;
    new_n->next = NULL;
    if(front == NULL)\{\\
      front=rear=new_n;
    }
    else{
      rear->next = new_n;
      rear=new_n;
    }
  }
}
int main()
{
  int n,i,t;
  scanf("%d",&n);
  for(i=0;i<n;i++)
  {
    scanf("%d",&t);
    enqueue(t);
  linkedListTraversal(front);
  return 0;
}
```



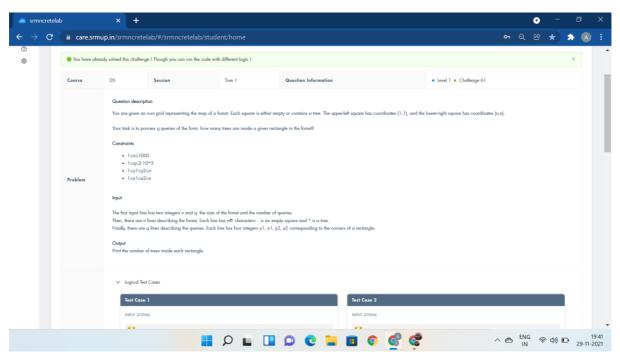
#include<stdio.h>

```
int main()
{
  long int disk,temp[1000000]={0},size,i,max;
  scanf("%ld",&disk);
  max=disk;
  for(i=0;i<disk;i++)
  {
    scanf("%ld",&size);
    temp[size]=size;
    if(size==max)
    {
      while(temp[size])
        printf("%ld ",temp[size]);
        size--;
      }
      max=size;
      printf("\n");
```

printf("\n");

```
}
return 0;
}
```

TREE 1:-



```
#include<bits/stdc++.h>
using namespace std;
#define rep(i,a,b) for (int i=a; i<b; ++i)
int dp[1005][1005];
int main(){
   int n,m; cin>>n>>m;
   rep(i,1,n+1){
      rep(j,1,n+1){
      char x; cin>>x;
      dp[i][j] = (dp[i-1][j] - dp[i-1][j-1]) + dp[i][j-1] + (x=='*');
   }
}
while(m--){
   int y1 , x1, y2, x2; cin>>y1>>x1>>y2>>x2;
```