

1>>>

```
c.#include<stdio.h>
```

```
int main(){
```

```
    int a[]={1,2,3,4,5};
```

```
    int n,i,pos,num;
```

```
    printf("enetr the num and pos:");
```

```
    scanf("%d%d",&num,&pos);
```

```
    n=sizeof a/sizeof a[0];
```

```
    for(i=n-1;i>=pos-1;i--){
```

```
        a[i+1]=a[i];
```

```
    }
```

```
    a[pos-1]=num;
```

```
    n++;
```

```
    for(i=0;i<n;i++)
```

```
    {
```

```
        printf("%d",a[i]);
```

```
    }
```

```
}
```

```
d.#include<stdio.h>
```

```
int main(){
```

```
    int a[]={1,2,3,4,5,6,7};
```

```
    int n=sizeof a/sizeof a[0];
```

```
    int pos,i;
```

```
    scanf("%d",&pos);
```

```
    for(i=pos-1;i<n-1;i++){
```

```
        a[i]=a[i+1];
```

```
        n--;
```

```
    }
```

```
    for (i=0;i<n;i++){
```

```
        printf("%d",a[i]);
```

```
    }
```

```
}
```

```
e.#include<stdio.h>
```

```
int main(){
```

```
    int a[]={1,2,3,4,5};
```

```
    a[0]=9;
```

```
int i;
int n=sizeof a/sizeof a[0];
for(i=0;i<n;i++){
    printf("%d",a[i]);
}
}
```

2>>

3.#include <stdio.h>

```
int fact();
```

```
int main(){
```

```
int a = 5;
```

```
printf("Factorial of %d is %d", a, fact(a));
```

```
return 0;
```

```
}
```

```
int fact(int n)
```

```
{
```

```
    if (n==0)
```

```
    return 1;
    return n*fact(n-1);
}
```

3>>>

```
#include<stdio.h>
```

```
int main(){
    int i,j,temp=0,c[10],d=0;
    int a[]={1,2,3,4,4,4,5,5,6,7,8};
    int l=sizeof a/sizeof a[0];
    for (i=0;i<l;i++){
        for (j=i+1;j<l;j++){
            if(a[i]==a[j]){
                printf("%d",a[j]);
            }
        }
    }
}
```

```
}
```

```
4>>>
```

```
4.#include<stdio.h>
```

```
int main(){
```

```
    int i,min,max;
```

```
    int a[]={1,2,3,4,5,6,7,8};
```

```
    max=min=a[0];
```

```
    int l=sizeof a/sizeof a[0];
```

```
    for (i=0;i<l;i++){
```

```
        if(a[i]<=min){
```

```
            min=a[i];
```

```
        }
```

```
    }
```

```
    printf("minimum=%d\n",min);
```

```
for (i=0;i<l;i++){
```

```
    if(a[i]>max){
```

```
        max=a[i];
```

```
    }
```

```
}  
    printf("maximum=%d\n",max);  
}  
5>>>
```

```
#include <stdio.h>  
  
int fib(int n) {  
    if(n == 0)  
        return 0;  
    else if(n == 1)  
        return 1;  
    else  
        return (fib(n-1) + fib(n-2));  
}  
  
int main() {  
    int a=5;  
    for (int i = 0; i < a; i++) {  
        printf("%d ", fib(i));  
        int sum=sum+i;  
    }
```

```
    printf("%d",sum);  
}  
}
```

6>>>

```
    #include<stdio.h>  
  
int main()  
{  
    int i,k=3;  
    int a[8]={1,2,3,4,5};  
    int l=sizeof a/sizeof a[0];  
    for (i=0;i<=l;i++)  
    {  
        if(k==a[i])  
        {  
            printf("%d",a[i]);  
        }  
    }  
}
```

7>>>

```
#include<stdio.h>

int main(){

    int i, x,mid,low,high;
    int a[]={1,2,3,4,5};
    scanf("%d%d%d",&x,&low,&high);
    int l=sizeof a/sizeof a[0];
    mid=low+high/2;
    if (a[mid]==i){
        printf("%d\n",mid);
    }
    if(a[mid]<x){
        low=mid+1;
        printf("present at %d\n",low);
    }
    else{
        high=mid-1;
```



```
        printf("present at %d\n",high);
    }
}
```

8>>>

```
#include<stdio.h>

int main(){
    int i, x,mid,low,high;
    int a[]={1,2,3,4,5};
    scanf("%d%d%d",&x,&low,&high);
    int l=sizeof a/sizeof a[0];
    mid=low+high/2;
    if (a[mid]==i){
        printf("%d\n",mid);
    }
    if(a[mid]<x){
        low=mid+1;
        printf("present at %d\n",low);
    }
}
```

```
}  
else{  
    high=mid-1;  
    printf("present at %d\n",high);  
}  
}
```