```
1.Travese
#include<stdio.h>
void main()
  int a[6]={1,2,3,4,5,6},i;
  for(i=0;i<=6;i++)
  {
     printf("%d",a[i]);
  }
input:a={1,2,3,4,5,6}
output:123456
2.Search
#include<stdio.h>
void main()
  int a[6]=\{1,2,3,4,5,6\},i,k=3,n=5;
  for(i=0;i<=n;i++)
     if(a[i]==k)
       printf("present\n");
     }
     else
       printf("not present\n");
  }
input:a[]={1,2,3,4,5,6}
output:
not present
not present
present
not present
not present
not present
```

3.Delete

```
#include<stdio.h>
void main()
  int a[6]={1,2,3,4,5,6},n=5,i,pos=2,ele;
  if(pos \ge n)
     printf("deletion is not possible");
  }
  else
  {
     for(i=pos-1;i \le n-1;i++)
        a[i]=a[i+1];
     }
  for(i=0;i<=n-1;i++)
     printf("%d",a[i]);
  }
input:a={1,2,3,4,5,6}
output:1,3,4,5
4.Update
#include<stdio.h>
void main()
  int a[6]={1,2,3,4,5,6},n=5,temp,new=8,k=3,i;
  for(i=0;i\leq n;i++)
  {
     if(i==k)
        temp=a[i];
        a[i]=new;
     }
  for(i=0;i\leq=n;i++)
     printf("%d",a[i]);
  }
}
```

```
input:a={1,2,3,4,5,6}
output=128456
5.Recurrsion
#include<stdio.h>
int fact(int n);
int main()
{
  int n=5;
  printf("%d",fact(n));
  return 0;
int fact(int n)
  if(n==0)
     return 1;
  else
     return n*fact(n-1);
input:5
output:120
6.Duplicates in an array
#include<stdio.h>
void main()
  int a[6]={1,3,3,4,5,6},i,count=0,n=5;
  for(i=0;i<=n;i++)
  {
     if(a[i]==a[i+1])
       count=count+1;
       printf("%d",a[i]);
     }
     else
       count=1;
     }
input:{1,3,3,4,5,6}
output:3
```

```
7.max and min an array
#include<stdio.h>
void main()
  int a[6]=\{1,2,3,4,5,6\}, n=5,i,max,min;
  min=max=a[0];
  for(i=0;i\leq n;i++)
  {
     if(a[i]>max)
       max=a[i];
  printf("max element:%d\n",max);
  for(i=0;i\leq=n;i++)
  {
     if(a[i]<min)
     {
       min=a[i];
     }
  printf("min element:%d",min);
input:a=\{1,2,3,4,5,6\}
output:max element:6
min element:1
8. Fibonacci series
#include<stdio.h>
int fibonacci(int n);
int main()
  int n=3,i;
  printf("%d",fibonacci(n));
int fibonacci(int n)
  int n1=0,n2=1,n3=n1+n2,i;
  for(i=0;i \le n;i++)
  {
     n1=n2;
     n2=n3;
```

```
n3=n1+n2;
  }
  return n3;
}
input:3
output:8
9.search by linear
#include<stdio.h>
void main()
  int a[6]={1,2,3,4,5,6},i,k=3,n=5;
  for(i=0;i\leq=n;i++)
     if(a[i]==k)
       printf("present\n");
     else
       printf("not present\n");
     }
  }
output:/tmp/1F6r9a1byc.o
not present
not present
present
not present
not present
not present
10.search by binary
#include<stdio.h>
void main()
  int a[6]={1,2,3,4,5,6},i,k=3,n=5,mid;
  mid=n/2;
  for(i=mid;i\leq=n;i++)
     if(a[i]==k)
       printf("present\n");
```

```
}
  else
  {
    printf("not present\n");
  }
}
output:
present
not present
not present
not present
not present
not present
```