* Programs &

Oneste C. brodraw for besporming observations on one insertion of deletion

write i Program for deletion of elementat array.

Wrote program to implement invert Clement in an array.

#include Lstdio.n> #include xconio.n> void main () ઈ int index, also]; printf(" Enter size of array ");

Scanf ("40d ", 21)) printf("(n Enter elements in array");

for (;=0; 1< n 3 1++)

printf(" # a [yod] " o);

Scanf ("bo") 7 aco]);

printf("In Enter element to be deleted index: ") o scanf (" god ", & index);

ff(index >= 17+1) if (index O) index 7=n)

printf("Deletion not passible");

else

fort = index ; < n-1; i++)

printf("Array after deletion is: 11)3
for(:=0)i<n-139++)

Brints (" god "ac :]) =

actorial using recursion #includexstdio.h> long factorical (intn) タト(のくこよ) return (1); ول ي ول و return (not factorial (n-1); roid main() printfluenter D 11 Scant ("10d"/8n))

Printf ("n 1 = 1/0 d"/factorial(n)); Fibonacci #include KStdio.nz 20(120)140314 but Esponacci (intu)

Thonacci

#include Ketdio.ns

Phyt fibonacci (int n)

of (n <= f)

else

deturn fibonacci (n-1) + fibanacci (n-s);

ont main ()

print ("sol ", fibrall)

orturn o;

print ("sol ", fibrall)

orturn o;

print main ()

ont of & n

print ("sol ", od ", od

```
Linear search
#Include <stdio.n>
roldmain()
  intalso], no item, is
 printf(" Enter size of array")?
 scanf("4.d" 8n)
pointf ("Enter Elements")
 for(1=0) 1<n 31++)
    scout ( a elog " 90 [])?
 printf(" Array Enter "item to be searched") 3
  Scenf (" tod 1, & atem);
   €r(1=0;1<n;1++)
         9f(a[:] == item
            printf ("Element found at index=10d", 3)3

break 3
 (t(;==n)
     .printf ("Element not found") 3
```

Binary Seasch #include <stdio. n> roid main!) E int also in; int low= 0 + intom, mid, high; prints ("Entersize of assess In")) Econtind og 1, 30) printfl ("Enter clements") for (=0 int 9=0) icn 39++) scant (" of od "Sali]); high=n-1; int item s printf("Enter searching item")> Scorp (" Tod " & = tem) while (low<= High) mid= (lowthigh) / 2= if (a[mid] == atem) printf(" Item found at index tod ", amid)3 Lefons, if (a [mid] < item)

[ow=mid+1] ow=mid+1:

die

high=mid-1;

print+("not-found");

subdesort. #include < stdio.n> word main() Eintalsolijinitemps printf("Enter size of array")> printf("Enter elements")3 408(1=0) 1× ng 1++) canf "-100 ", & al 1) for(i=0; i<n-1-; i++) for (1=2) \ \ n-9-1 ; 3++) ([c+c]o < [i]o)7° Emp=als]; a[]=a[]+1]> al; +D=temp's printfut Sorted worder ")3 for (=0) (< n = 1++) printf("1d", atI)>

Selection Sort #include < stdio.n> int main() printting Enter Size of owners 11). interactors. print("Enter elemente") > for (int : ; i < n > i + t). print+ scant ("dod" la (=]) Pf("Sorted")3 (00 (j=0) iknjitt) E PA (HIELI]

ৰ্ণ

idea Instancion corr #include Lstdio. h> int main () int 1, 9, nikey 3 pA Entersize of amay"); Scanf (" fod "il n); printf("Enter Elements") Gr(==つ)(<n)(++) scanf ("olod", Sali]) for (i=1) ikn ji++) Key=a[i]; for (j= 1-1 5 j7=082 a[9] > key 5 j++) 2 a [j+1]=00 a[j]3 a[j+]=keys pt (Sorted arreey) Fox(12051Kn = 1tt) pt ("Mod", ali]) ~ returnoj

```
EMY bob
#Include < stdio.n>
# define man Tize 50.
 int stack[100], top=-13
 roid publics
  Logg grablast () >
 Void main ()
 Eint-choice, n;
   Printf("Enter size of corray")3
   Sconf (" dod " & U)
    Scant (" r.d", & stack[n])>
  902
   brintt ("/VII book / N J - 606 / 2 3- DRiblan 31) =)
   printf("Enter your choice ")=>
   Scanf(" Tod ", Schoice) 3
  Switch (choice)
     case 1: push();
     (ase2 : pop())
              break's
     (ase 3 = d'splay ())
                break;
       defect: pruff ("wrong choice")
   while (choice 1=4);
  return o';
```

```
() deug bjor
   9 f (+0 P 7 = MAX_SIZE - 5)
  eve
     printflaEnter Element 11);
     Stack [Htop]=x3
1909 Dior
   9 f ( top < =-1)
     printf("onderflow")=
    printf(" popped elemont = 18d", stock (top-)
roid display ()
 g (2(60>=0)
     fointe (18 lement care );
for (Int ; =top; i>=03i-)
        prinke ("Tod In"/Steak [i])
        No clents
```

Enquere / Dequere #include xstdio.n> # define max 5 int oc, almax front 2-1, rears-13 roid insert () Printf ("Enter the element)", Scant (" dod " &x)= if (front == max-1) printf("onene a orenflow") 22S Front=000 rear= rear + 13 2 alrear = x 3 roid delete() (+(foot==-1) underflow. printf("Poped Tod") (alfront)), Front ++ > of (food rear) front recor - 1 3

roid d'aplay()

For ("int", = front 3 1 <= reour 3 1+4)

Quid';

Sulvivier 1.