1 n (/Udc 2std to . h) K. Padma Lokesh void desce & A P19 11 00 10021 CSE-C U Ur int myarr[100] my value, [00], [00] temp 4 Printf(" Input my value:"); Scanf ("%d" Emyralue) for ([oop1=0; [oolemay value; loop1++) 17e 13 Printf(" value = 1/dil [00p1++); byde Scanf (11%d", Imy array [Ropi]); 14457 zmbos for ([00] 2=0; [00 pr 2 (myvalue-1); [cop2+1) for (loop 1 = 0; loop 1 < (my value - 1); (0011+1) & rf(myarilloop1++] < myarralloop1); & temp = myar ([wpi]; myarr[[copy]= myarr [lopp++); myarr[[oop]+1]= tem; Printf (11 Descending order: h"). for (loep 1 = my value; loop 1 70; loop 1 --) Printf ([Myarr [Toopi -- D) returno;

'loid biraryseam m) S int & file, mid, n, search, arr[100]; Printf (11 Enter no. of Elements: 11"): Scanflu-1. dr, dn); Printfl'Enter 11d Elements Myn) For (C=0; (cn; (+1) Sconf("1.2" & arr[i]). Printf (" Enter value to be find-\n"). Scanf(" 1.d", bsearch); f = 0 [=7-1 mid = (f+[)/2 while (fc [) if (arr (mid) < search) & f= mid+1% eiseris(arrcmid] = = search) & Prints ("./.d found at socation !.d in") · Starchi midti); break;

```
[ - mid - 1;
   mid= (+11))2;
(3 st) Fr.
   & Prinif(" Not found 1. 1. 2 Tim't Present infiat
                              m// scarch);
void muladac)
   inta, b, add, mol;
    Printf(" fintera location:");
    Scanf (11 1/1 du)
    Print of ("Enter blocation.")
     Scanf ("1.6.2", 161;
     add = arreal tarreb].
     mol= arr[a] * arr[b].
      Printf ( " addition = 1.2", add);
      Printf (" Multiplication = 1/21/ mull.)
   you'd desc ()
      void binary Scarch
      voi 2 mol adde)
           maine)
```

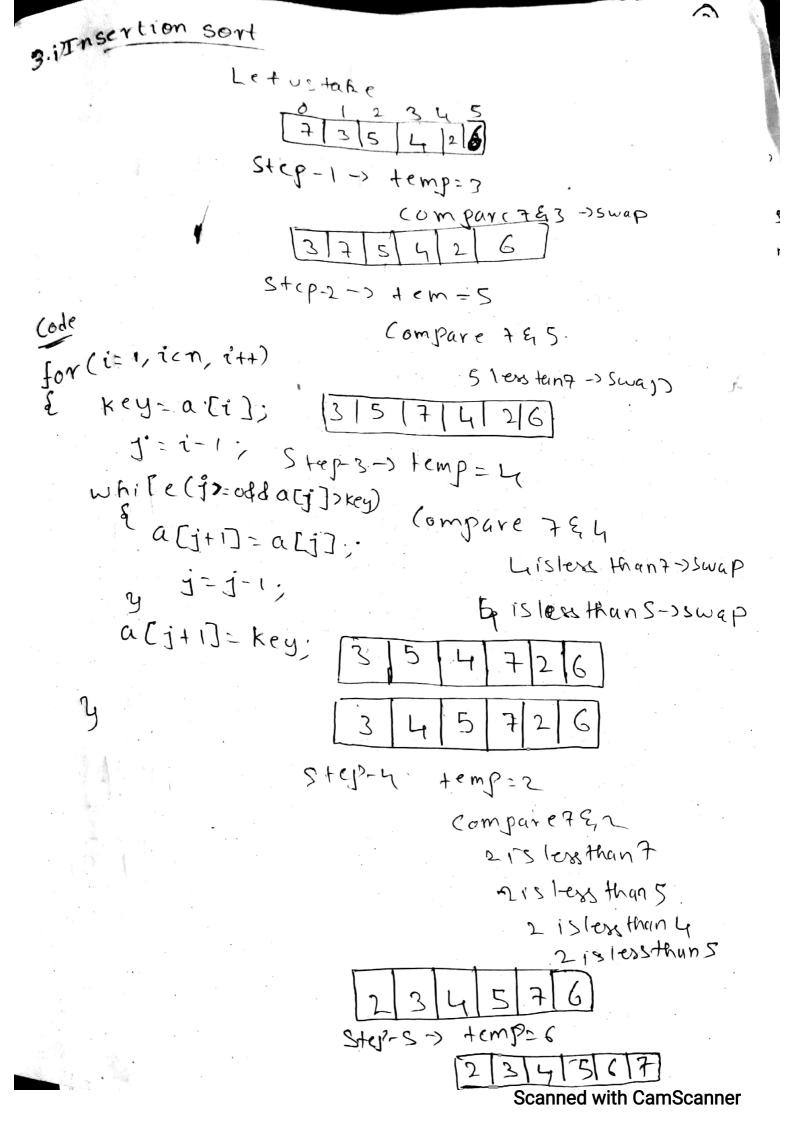
```
E int choice;
   while (1)
     Printf(" 1. Descending order In");
     Printf(112. Searching & Comentinaliagi')
      Printf (13. add & mo[ \n"];
      Printf (14. Quit M11)
      Printf ("Enteryourchoice;")"/
       Scanf (" 'ld", &choire);
        Switch (choice)
           Cose 1:
           desc ()
            Dreak;
           (age2'.
            binaryscarch ()
             break;
           (asc ?;
            molladd()
             break;
           Case 4;
            exit(1);
           default:
              rvinifl "Wrong (hoile m") >
```

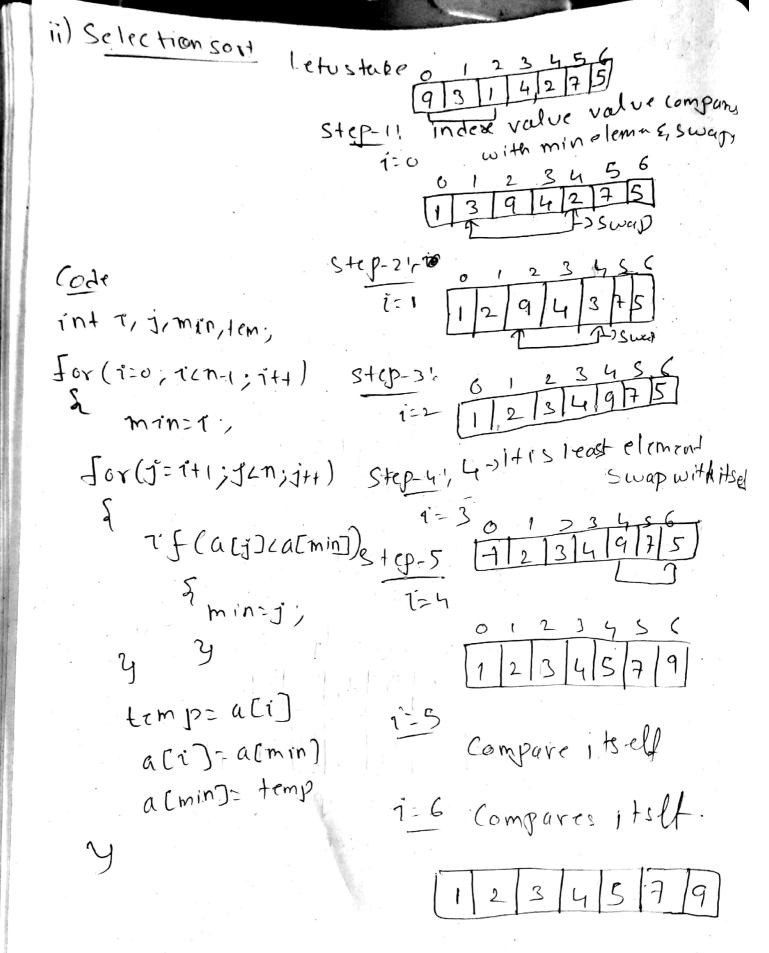
orgal 1. pescending order 2- Searling & lament in array. 3- add & mo11 4. Quit Enteryour choice; 1 In put many value.s Value-1:3 raluc-2:6 Value-3:,9 Value-4: 10 Value -5:5 Pescincendin order. 109653 Enter your choice; 2 Enter no of Elements S Enter sintegers. Entery corchoneil EXET, Enter value tofind 6 Found at location 3 Enter your (noice:) Enter a Co catron: 2 Enter b (ocation = 3 addition = 15 multiplication=54

```
1 # include < stato. 63
  # define
           MAX100
  int arral [ MAX]
   int arr 2 [Max]
   void merge (int low, intmid, int high)
       int 1, 1, k;
       for (i= low; j= midti; k= low; izmiddej: z= high;
                                                K++)
            [i] (arri[i] < arri[j]
               arr2[k] = arr1[i+];
             else
                arrz[K] = arri [j++];
       While (iz= mid)
         arr 2 [k++]= arr1[i++].
         while (j'z= high)
            arr 2 [ k++ ] = arr 1 [ j++ ] ;
          for (int[=0; [< high+1; ++[)
           9 array[[]= arrz[1];
       void sort ( THE FOW, INT () 19A)
```

```
( J ( lowe high)
  & ind mid= (Towthigh)/2%
     Sort ( Four mid );
      Sort (midtly Kigh);
      meage (low, mid, high)
 Place
   Ycturn .
 int main (void)
   Ę
     intno
     Printf(" In Enter no. of Etements:///
     · Scanf ( 11.1.7.7 ) July
    Print f("In Enter. 1.d & Tement", n);
      for (int 7=0; 12n; 1++)
        Scanfl"y.d", darn[i]);
       Printf (" In Array after sorting is: ").
        Sort (0, n-1).
         for (7 nt 1=0) 12 n, 17+1)
         & Print f. (1.1.411, arri(2))
          Intk/mus=1;
           Printf(11 gnterk Value In11);
           scanf (" / d", & K);
           for (i=0, ick > i++)
            & mu[ - mu[1 i;
           Printil " Product of K the Iem ents is. hd" mul).
```

15 th 5 (rments 15





```
4) #include <stdio.6>
    int Bubblesort (int size, int * arr)
          int 1, i temp;
           for( i = Size-2; i)=0;i--)
              for (j=0;j == i;j ++)
               & if(arrti] > arrti+1]).
                      temp: arr[j];
                      critilians = Ciarra
                       arresti) = temp;
           int main (void)
             int size, 1, arr[20], sum=0, mu[=1, m;
              Printef("Enter no of elements; \n");
              Scanf (" Md", &size);
               Printf ("Enter the "/delements", ", size);
               for (1=0; 12 size; i++)
                    scanf ("1.1", Larr [i]);
                 Bubble sort (size, arr);
                  Printf ( "After Sorting");
                   for (1=0; ilsize; it)
```

```
Print f (11.1.d", arrli);
Printf ("In");
Print f ("alternate elements after sorting In").
for (i=0; ic size; i++)
      Printf ("1.1", ary[it+]);
  Printf("1n");
Print & (" Sum of elements in cold positions and midlet
                elements in even positions m").
  for(i=0;icsize; i++)
   S if(i'/02 = = 0)
         E mul = mul + arrei]
          & sum = sumtarr[i]
    Printf(11 Sumat Elements in odd Position 15 1/2"/sum).
  Printf (" mot of 8 Tements in even position is % 2" mol);
   Printf ("Enter n values");
    Scanf ("1.d", & m);
    for (1=0; il size; i++)
         if (arr[1]/m==0)
           Printf ("1.d" arr[i]);
       YrinH("In"); returno, y
```

Output Enter no of Etements 55 Enter 5 Elements:

99311

Aftersorting: 357 911

Alternate Elements after sorting

3711

Sum of Elements in odd positions and mulab Elements in Even positions.

Sum of Elements in odd position is 2.1 mull of Elements in Even Position is: 45 Enter in value; B

11

```
∕3\
Hinclude < Stdio- 63
int binary search ( Tinta[], Tint [, Int h, Int key)
      ind mid=([+h)/2;
      (1<1) Er
           return -1;
       rf (a[mid] == key)
              return mid;
        if (almid) ckary)
            return binary Searh (a, mid+ 1, hy. kcy);
         7150
             return binary search (a, [, mid-1, key).
     7 nd main (void)
     & inta[100];
         ant n, posi,x;
        Printf ("Enter length of array: In")
         Scanf ("1/4", &n).
         Printf ("Enter the elements; In 11);
          for ( 1=0 ; 1(n; i++)
              Scanf ("1.d" da[1]);
         Printf ("Enter the element to search: \n")
           Scanf ("1.6", &x);
         Pos = binary search (a, 0, n-1, x);
```

```
if (Poszo)
          Printf(" (annotfind "1.d inarray In", x);
       cise
          Print f (" Position of 1.d in array is 1.d In"
                                        K/POSID;
        vetorno;
Enter the length of array; 5
  Enter the orray elements.
            the clement to search:
            of 5 in arruy 1's 3
  Position
```