

12-06-2024

$a[i] = *(a+i)$; $&a[i] = a+i$

POINTERS =>

-> main ()

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

p = a;

printf ("%d", a[2]); // 3

printf ("%d", *(a+2)); // 3

printf ("%d", *(2+a)); // 3

printf ("%d", 2[a]); // 3

printf ("%d", p[2]);

printf ("%d", *(p+2));

printf ("%d", *(2+p));

printf ("%d", 2[p]);

}

-> SORTING

-> Avg of
SUBJECTS

→ main ()

{

int a[20], i, n, big;

printf ("enter n");

scanf ("%d", &n);

printf ("enter elements");

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

scanf ("%d", a+i);

big = *a;

for (i=1; i<n; i++)

{

if (* (a+i) > big)

big = * (a+i);

}

printf ("%d", big);

}

O/p :-

enter n: 5

enter elements :-

30 20 40 60 10

60

SORTING:-

→ main ()

{

int a[20], i, m, *p;

printf ("enter m");

scanf ("%d", &m);

printf ("enter elements");

for (i=0; i<m; i++)

scanf ("%d", &a[i]);

~~for (i=0; i<m; i++)~~

for (i=0; i<m; i++)

for (j=i+1; j<m; j++)

SORTING USING POINTERS:-

→ main ()

{

int a[20], m, i, j, temp;

int *p;

printf ("Enter value of m: ");

scanf ("%d", &m);

printf ("Enter numbers: ");

for (i=0; i<m; i++)

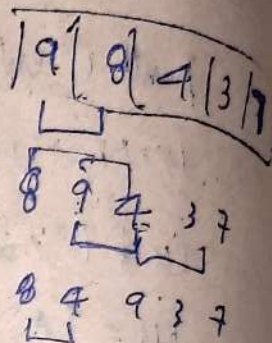
scanf ("%d", &a[i]);

for (i=0; i<m; i++)

{

for (j=i+1; j<m; j++)

{



temp = *a[i];

*a[i] = *a[j];

*a[j] = temp;

} for (i=0; i<m; i++)


```

if ( *(a+j) < *(a+i) )
{
    temp = *(a+i);
    *(a+i) = *(a+j);
    *(a+j) = temp;
}
}
}

```

```

printf ( "\n Elements of array sorted in ascending order:
\n ");

```

```

p = a;

```

```

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

```

```

{
    printf ( "%d ", *(p+i));

```

```

}

```

```

printf ( "\n ");

```

```

}

```


Average of m-Subject marks Using Pointers:-

→ main ()

{

int a[20], m, i, sum=0;

float avg;

int *p;

printf ("Enter number of subjects: ");

scanf ("%d", &m);

printf ("Enter subject marks: ");

for (i=0; i<m; i++)

scanf ("%d", &a[i]);

p = a;

for (i=0; i<m; i++)

sum = sum + *(p+i);

avg = (float) sum / m;

printf ("Average : %.f \n", avg);

}