**ACTIVITY SEARCH ALGO**

#include<stdio.h>

int main ()

{

int start[10], end[10], act[10], i, j, n, s[10], temp;

printf ("Enter no. of activities to be entered:");

scanf ("%d", &n);

printf ("Enter start time");

for (i = 0; i <= n - 1; i++)

{

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

}

printf ("Enter end time");

for (i = 0; i <= n - 1; i++)

{

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

}

for (i = 0; i <= n - 1; i++)

act[i]=i;

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

{

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

{

if (end[j] < end[i])

{

temp = end[i];

end[i] = end[j];

end[j] = temp;

temp = start[i];

start[i] = start[j];

start[j] = temp;

temp = act[i];

act[i] = act[j];

act[j] = temp;

}

}

}

printf("Start\tend\tact\n");

for (i = 0; i <= n - 1; i++)

printf ("%d\t%d\t%d\n",start[i],end[i],act[i]);

printf("The selected activities are\n%d",act[0]);

temp=0;

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

{

if(start[i]>=temp)

printf("%d\t%d\t%d\n",start[i],end[i],act[i]);

temp=end[i];

}

return 0;

}

Text

Description automatically generated

#include<stdio.h>

int max, min;

int a[100];

void

mm (int i, int j)

{

int max1, min1, mid;

if (i == j)

{

max = min = a[i];

}

else

{

if (i == j - 1)

{

if (a[i] < a[j])

{

max = a[j];

min = a[i];

}

else

{

max = a[i];

min = a[j];

}

}

else

{

mid = (i + j) / 2;

mm (i, mid);

max1 = max;

min1 = min;

mm (mid + 1, j);

if (max < max1)

max = max1;

if (min > min1)

min = min1;

}

}

}

int main ()

{

int i, n;

printf ("Enter no. of elements: ");

scanf ("%d", &n);

printf ("Enter the elements: \n");

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

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

max = a[0];

min = a[0];

mm (1, n);

printf ("Minimum element in an array : %d\n", min);

printf ("Maximum element in an array : %d\n", max);

return 0;

}

Text

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