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#include<stdio.h>
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int max, min;
int a[100];
void maxmin(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
        {

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        mid = (i+j)/2;
        maxmin(i, mid);
        max1 = max; min1 = min;
        maxmin(mid+1, j);
        if(max < max1)
            max = max1;
        if(min > min1)
            min = min1;
    }
}

int main ()
{
    int i, num;
    printf ("\nEnter the total number of numbers : ");
    scanf ("%d",&num);
    printf ("Enter the numbers : \n");
    for (i=1;i<=num;i++)
        scanf ("%d",&a[i]);

    max = a[0];
    min = a[0];
    maxmin(1, num);
    printf ("Minimum element in an array : %d\n", min);
    printf ("Maximum element in an array : %d\n", max);
    return 0;
}

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(base) microrb@microrb-HP-Laptop-15-bs1xx:~$ gcc DAA1.c
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(base) microrb@microrb-HP-Laptop-15-bs1xx:~$ ./a.out
```

Enter the total number of numbers : 3

Enter the numbers : 2 4 6

Minimum element in an array : 2

Maximum element in an array : 6