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//Write a program to find minimum and maximum from a given array.
#include<iostream>
#include<cmath>
using namespace std;
class MaxMinDemo
  int A[16];
 int n;
   int fmax, fmin;
public:
  void getData()
        cout << "enter the number of elements:";</pre>
  cin >> n;
    cout << "Enter the elements:";</pre>
    for (int i = 0; i < n; i++)
   cin >> A[i];
 }
 void MaxMin()
        HMaxMin(0, n - 1, fmax, fmin, A);
```

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void Display()
cout << "Given array is:";</pre>
 for (int i = 0; i <= n; i++)
{
cout << A[i] << " ";
}
cout << endl;</pre>
cout << "\n Max:" << fmax << "\n Min:" << fmin;</pre>
void HMaxMin(int i, int j, int& fmax, int& fmin, int
A[]);
};
void MaxMinDemo::HMaxMin(int i, int j, int& fmax, int&
fmin, int A[])
{
if (i == j)
{
fmax = fmin = A[i];
}
else if (i == j - 1)
{
if (A[i] > A[j])
{
fmax = A[i];
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fmin = A[j];
else
fmax = A[j];
fmin = A[i];
}
else
{
int mid = (i + j) / 2;
int gmax, gmin;
HMaxMin(i, mid, gmax, gmin, A);
 int hmax, hmin;
 HMaxMin(mid + 1, j, hmax, hmin, A);
 fmax = max(gmax, hmax);
fmin = min(gmin, hmin);
}
}
int main()
{
MaxMinDemo o;
 o.getData();
o.MaxMin();
 o.Display();
```

## return 0;



## Output:

enter the number of elements:5

Enter the elements:34

67

8

33

29

Given array is:34 67 8 33 29 6422280

Max:67

Min:8