PRN- 23UAI313

EXP-2

```cpp
#include<iostream>

using namespace std;int a[100];int minn, maxx;void MaxMinAlgo(int x, int y) {int max1, min1, mid;if (x == y)

{

minn = maxx = a[x];

}

else if (x == y - 1)

{

if (a[x] < a[y])

{

maxx = a[y];

minn = a[x];

} else

{

maxx = a[x];

minn = a[y];

}

} else

{

mid = (x + y) / 2;

MaxMinAlgo(x, mid);

min1 = minn;

max1 = maxx;

MaxMinAlgo(mid + 1, y);if (maxx < max1) {maxx = max1;} if (minn >min1) {minn = min1;}

}

}

int main() {

int n, i;

cout << "Enter array size:" << endl;
```

```cpp
cin >> n;
for (i = 1; i <= n; i++)
{
cin >> a[i];}minn = a[1];
maxx = a[1];MaxMinAlgo(1, n);
cout << "Minimum element in array is: " << minn << endl;
cout << "Maximum element in array is: " << maxx << endl;r
eturn 0;
}
```