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PRN-23UAI313
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EXP-2
#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;
```

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