```
#include <stdio.h>

int a[50], n;
int fmax, fmin;

void minmax(int i, int j);

int main() {

int i;
printf("Prepared by: Vedant\n");
printf("Enter the number of elements in the array: ");
scanf("%d", &n);

printf("Enter %d elements in the array:\n", n);
for (i = 0; i < n; i++)

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

printf("\nThe elements in the array are:\n");
for (i = 0; i < n; i++)

printf("%d\n", a[i]);

// Initialize fmax and fmin with first element
fmax = fmin = a[0];

minmax(0, n - 1);
```

```
printf("\nThe minimum element of the list is: %d\n", fmin);
printf("The maximum element of the list is: %d\n", fmax);

return 0;
}

void minmax(int i, int j) {

int gmax, gmin, hmax, hmin, mid;

if (i == j) {

// Only one element
if (a[i] > fmax) fmax = a[i];
if (a[i] < fmin) fmin = a[i];
} else if (i == j - 1) {

// Two elements
if (a[i] > a[j]) {

if (a[i] > fmax) fmax = a[i];
if (a[j] < fmin) fmin = a[j];
} else {

if (a[j] > fmax) fmax = a[j];
if (a[i] < fmin) fmin = a[i];
}
} else {
```

```
// More than two elements, divide
mid = (i + j) / 2;
minmax(i, mid);
minmax(mid + 1, j);
}
}
```