

```
import java.util.Random;
import java.util.Arrays;
```

```
public class Stopwatch
{
    long startTime;
    long endTime;

    Stopwatch()
    {
        startTime = System.currentTimeMillis();
    }

    long getStartTime()
    {
        return startTime;
    }

    long getEndTime()
    {
        return endTime;
    }

    void start ()
    {
        startTime = System.currentTimeMillis();
    }

    void stop ()
    {
        endTime = System.currentTimeMillis();
    }

    long getElapsedTime ()
    {
        return endTime - startTime;
    }
}
```

```
class TestStopwatch
{
    public static void main(String[] args) {
        Stopwatch stopwatch = new Stopwatch();
        int arr[] = MakeArray();
        stopwatch.start();
        Arrays.sort(arr);
        stopwatch.stop();
        System.out.println("elapsed time in milliseconds: " + stopwatch.getElapsedTime());
    }
}
```

```
static int [] MakeArray ()
{
    Random random = new Random();

    int arr[] = new int[100000];

    for (int i = 0; i < arr.length; i++)
        arr[i] = random.nextInt(100000);

    return arr;
}
```