Assuming all the values in the array are the same, we get the following relation :

```
T(N) = 2 * T(N/2) + constant
     = 4 * T(N/4) + constant     ( 2 * constant = another constant )
     = 8 * T(N/8) + constant
     ...
     = N * T(N/N) + constant
     = N + constant
     = O(N)
```