Q6. Profiling Quick Sort

Unfortunately I get errors for exceeding the stack space when trying to execute my recursive Quick Sort on arrays larger than 10^3 so I couldn't benchmark all the way up to 10^6

```
user
          system
                    total
                             real
Random: 1 0.000000 0.000000 0.000000 ( 0.000009)
Random: 2 0.000000 0.000000 0.000000 ( 0.000009)
Random: 10 0.000000 0.000000 0.000000 ( 0.000013)
Random: 10<sup>2</sup> 0.000000 0.000000 0.000000 ( 0.000172)
Random: 10<sup>3</sup> 0.000000 0.000000 0.000000 ( 0.003330)
    user
           system
                     total
                             real
Reverse: 2..1 0.000000 0.000000 0.000000 ( 0.000006)
Reverse: 10..1 0.000000 0.000000 0.000000 ( 0.000017)
Reverse: 10^2..1 0.000000 0.000000 0.000000 ( 0.001127)
Reverse: 10<sup>3</sup>..1 0.100000 0.000000 0.100000 ( 0.099556)
           system
    user
                     total
                             real
All 1's: 1 0.000000 0.000000 0.000000 ( 0.000006)
All 1's: 2 0.000000 0.000000 0.000000 ( 0.000006)
All 1's: 10 0.000000 0.000000 0.000000 ( 0.000015)
All 1's: 10^2 0.000000 0.000000 0.000000 ( 0.000589)
All 1's: 10<sup>3</sup> 0.040000 0.000000 0.040000 ( 0.048234)
```