ÅRandom

- (b) $\mathcal{O}(n)$
- (c) $\mathcal{O}(\log n)$
- (d) $\mathcal{O}(\log n)$

Linear

- (b) avg $\mathcal{O}(n)$, worst $\mathcal{O}(n)$
- (c) avg $\mathcal{O}(n)$, worst $\mathcal{O}(n)$
- (d) avg $\mathcal{O}(\log n)$, worst $\mathcal{O}(n)$

Scramble

- (b) avg $\mathcal{O}(n)$, worst $\mathcal{O}(n)$
- (c) avg $\mathcal{O}(n)$, worst $\mathcal{O}(n)$
- (d) avg $\mathcal{O}(\log n)$, worst $\mathcal{O}(n)$

The scramble search is the best

Scramble search performs best.

This is the result of running a sequence of 1000 random numbers for 1000 times.

Random average: 6.423282623291015e-05

Linear average: 0.03434729146957397

Scramble average: 0.0008692293167114258