

Random

(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

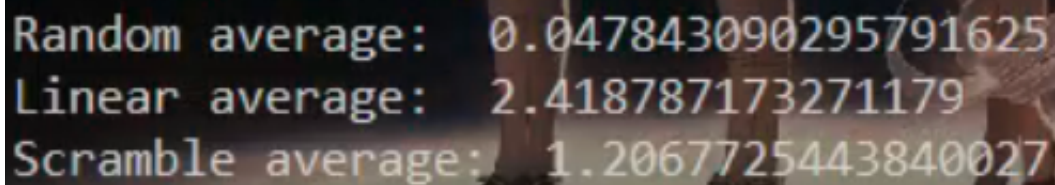
(b) avg $\mathcal{O}(n)$, worst $\mathcal{O}(n)$

(c) avg $\mathcal{O}(n)$, worst $\mathcal{O}(n)$

(d) avg $\mathcal{O}(n)$, worst $\mathcal{O}(n)$

The LinearSearch is the best

Linear search performs best.



```
Random average: 0.047843090295791625
Linear average: 2.418787173271179
Scramble average: 1.2067725443840027
```