



$S(n)$

BEST CASE \rightarrow A (3) 1

WORST CASE \rightarrow F (13) 6

Avg CASE \rightarrow D (9) 4

linear search (target)

```
for (i=0; i < a.length; i++) {
  if (a[i] == target) {
    return i;
  }
}
```

- 1.
- 2.
- 3.

4.

```
}
return -1;
```

$O(n)$

$((i \text{ index} + 1) * 2) + 1$
constant