



b) int fl (int *A)

If $n = \textcircled{16}$, $\sqrt{n} = 4$

- 15
14
13
 $\textcircled{12}$
11
10
9
 $\textcircled{8}$
7
6
5
 $\textcircled{4}$
3
2
 $\textcircled{0}$

all circled numbers are multiples of $\sqrt{n} / 4$.

of operations = $1 + \sqrt{n}$

$\text{cost} = n$

\downarrow

$$\frac{n}{1 + \sqrt{n}} = \frac{n}{\sqrt{n}} = n^{1/2} = \log_2 n$$

runtime:
 $\Theta(\log_2 n)$