

Devin Hardy

CS 372

5.

- a)  $n^2$
- b)  $n + \log_2 n$
- c)  $n + \log_2 n$

7.

- a)  $n^3$
- b)  $4^n$
- c)  $n^4$

8.

- a) 6 secs

0.

Big O indicates how many times a program loops

1.

- a)  $n^3$
- b)  $25n^2$
- c)  $2500n^3$
- d)  $\log_5 n$

2.

$n$

3.

$n + \log_2 n^2$

4.

$\log_2$

5.

$n \log_2 n$

6.

$n \log_2 n$

7.

$n + \log_2 n$