

Session 1 Pseudocode Mariel Bimoputi

search for song in karaoke book (200 songs)

ex: Everglow - Coldplay

Approach 1: search one by one from A to Z. $\rightarrow O(n)$

Approach 2: open middle page then see if it is in this page, earlier, or after $\rightarrow O(\log n)$

Approach 1:

1 Open karaoke book

2 look at the page

3 IF Everglow by Coldplay is on this page

4 choose the song

5 Else if Everglow by coldplay is not in this page

6 open the next page

7 Go back to line 2

8 Else

9 Quit

Approach 2:

- 1 Open karaoke book
- 2 Open the middle page
- 3 look at the page
- 4 If Everglow by Coldplay is in this page
choose the song

Else if Everglow by Coldplay is on the earlier page (200)

Open the middle left of the book (75)

Go back to line 3

Else if Everglow by Coldplay is on the later page (200)

Open the middle right of the book (275)

Go back to line 3

Else

Quit

