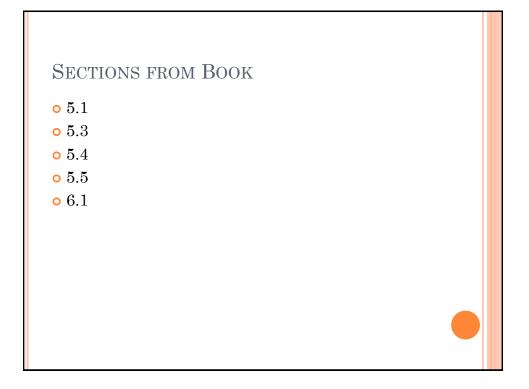


#### ANNOUNCEMENTS

• Exam 3 – November 15<sup>th</sup> (in lecture)

 Monday, November 22<sup>nd</sup> – lectures will not meet. Instead, I will be holding office hours all day to assist with any last-minute issues with the Scratch assignments. If you are coming for help with Scratch, you must bring your files with you. I don't have access to your UB filespace from my office.



### TOPICS

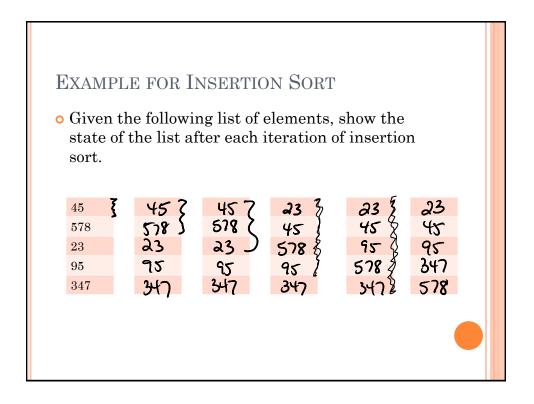
- There will be questions on the terms and definitions from the sections of the chapter.
- You will also be responsible for the linear search, binary search, and insertion sort algorithms.

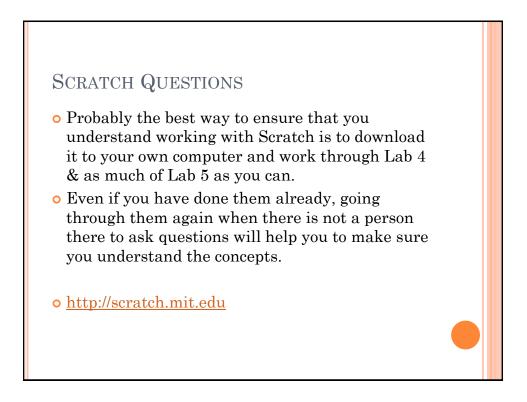
# SEARCHING ALGORITHMS

• Given the following list of elements, give the order the elements would be considered if using the xxx algorithm to find element Y.

SAMZ	binary A Search 18 LE LISTS 148	Biz	see 39	
13 34	UULO	13	446	
136	126	34 136	674	
148 <b>]</b> 178	446 136 178	148 178	446 674 456 578	
258	148	258	50€	
446 456	110	446 456 <b>T</b>	570	
578		578 ]		
674 853		674 853		
872		872		
9462		9462		

SAMP	Linear for Search for 178 LE LISTS		Linear for search 429	*
13	13	13	13	
34	34	34	34 136	
136		136		
148	136	148	148	
178	148	178	178	
258		258	228	
446	178	446		6-2
456	• • -	456	446	872 9462
578		578	YSLe	9462
674		674	446 486 578 674	
853		853	174	
872		872	6/1	
9462		9462	853	





## SCRATCH QUESTIONS

- Given a block can you describe what it does? (one block)
- Given a description of an action/activity can you pick out a block that would do that? (one block)
- Can you do the above for a short sequence of actions or activities (5-6 blocks).
- Given an if-statement (or if-else statement), could you evaluate the condition and determine what code will be executed?
- If looking at a script for a sprite, could you determine when it would execute?

## SCRATCH QUESTIONS

- Could you determine which part of a script would be repeated?
- Can you tell how many times a piece of a script would be repeated?
- Can you identify a variable in a script?
- Can you show where in a script a variable will change its value?
- What does a broadcast do?