

Investigate the binary search algorithm

1	def linear_search(target,items):
2	length_of_list = len(items)
3	for i in range(length_of_list):
4	if items[i] == target:
5	return i
6	return -1
7	items=[17, 2, 5, 21, 32, 18, 13, 7, 11, 8]
8	target=32
9	print(linear_search(target,items))

1. Identify the variables	
2. Explain what the function len () is doing	
3. What is the value of length_of_list?	
4. Explain what the function len () is doing	
5. What does def do?	
6. How many parameters does the function linear_search take?	
7. What type of data structure is items?	
8. What datatype is target?	
9. What are the parameters to linear_search?	
10. What is the FOR loop doing?	
11. What does the IF statement do?	
12. What line are we calling the user defined function on?	

13. What is happening on line 6? What does this mean?	
14. Overall what is the code doing?	

