# Investigate the binary search algorithm

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| 1  2  3  4  5  6  7  8  9 | def linear\_search(target,items):  length\_of\_list = len(items)  for i in range(length\_of\_list):  if items[i] == target:  return i  return -1  items=[17, 2, 5, 21, 32, 18, 13, 7, 11, 8]  target=32  print(linear\_search(target,items)) |

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| 1. Identify the variables |  |
| 1. Explain what the function len()is doing |  |
| 1. What is the value of length\_of\_list? |  |
| 1. Explain what the function len()is doing |  |
| 1. What does def do? |  |
| 1. How many parameters does the function linear\_search take? |  |
| 1. What type of data structure is items? |  |
| 1. What datatype is target? |  |
| 1. What are the parameters to linear\_search? |  |
| 1. What is the FOR loop doing? |  |
| 1. What does the IF statement do? |  |
| 1. What line are we calling the user defined function on? |  |
| 1. What is happening on line 6? What does this mean? |  |
| 1. Overall what is the code doing? |  |