

# Math 2013 - Introduction to Discrete Mathematics

Quiz #12 - 2005.11.09

Name: \_\_\_\_\_

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Consider the following ordered array which contains 22 elements:

0	2	3	4	5	5	7	9	10	10	12	14	16	17	12	14	15	16	16	18	19	20
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1. How many steps will it take to find  $key = 7$  if one uses the linear search algorithm proposed in the book? Be sure to justify your answer.

2. How many steps will it take to find  $key = 7$  if one uses the binary search algorithm proposed in the book? Be sure to justify your answer.