

Assignment 4
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Exercise 1:

1. first = 0; last = 7; mid = $(0+7)/2 = 3$
array[3] = 0; $0 < 14 \rightarrow$ go right;
2. first = $3+1 = 4$; last = 7; mid = $(4+7)/2=5$;
array[5] = 5; $5 < 14 \rightarrow$ go right;
3. first = $5+1 = 6$; last = 7; mid = $(6+7)/2 = 6$;
array[6] = 14; $14 == 14 \rightarrow$ Item Found(STOP).