

Examples of binary search using the modified version discussed in class:

Looking for element 35

Index	Item	1 st iteration	2 nd iteration	3 rd iteration
0.	5	Beg	Beg	
1.	12			
2.	15			
3.	21			
4.	27		Mid	
5.	32			Beg
6.	35			Mid
7.	37			
8.	41		End	End
9.	49	Mid		
10.	53			
11.	58			
12.	59			
13.	60			
14.	62			
15.	68			
16.	71			
17.	79			
18.	81			
19.	90	End		

Found! Return 6

Looking for element 36

Index	Item	1 st iteration	2 nd iteration	3 rd iteration	4 th iteration	5 th iteration
0.	5	B	B			
1.	12					
2.	15					
3.	21					
4.	27		Mid			
5.	32			B		
6.	35			Mid		E
7.	37				B/Mid	B
8.	41		E	E	E	
9.	49	Mid				
10.	53					
11.	58					
12.	59					
13.	60					
14.	62					
15.	68					
16.	71					
17.	79					
18.	81					
19.	90	E				

Not Found!
Beg = End+1