Binary Search Simulation

Question: A [1,2,4,6,8,9,11,13,17,18,21,24,27,30,35,36]. How will binary search algorithm work on the following array to search value 17 and 25?

Solution:

To search 17:

Low	High	Mid	Condition True	Action
0	15	7	arr[mid]<17	low = 7 + 1 = 8
8	15	11	arr[mid]>17	high = $11 - 1 = 10$
8	10	9	arr[mid]==17	Element found

To search 25:

Low	High	Mid	Condition True	Action
0	15	7	arr[mid]<25	low = 7 + 1 = 8
8	15	11	arr[mid]<25	low = 11 + 1 = 12
12	15	13	arr[mid]>25	high = 13 -1 = 12
12	12	12	arr[mid]>25	high = $12 - 1 = 11$
12	11	-	-	-