

Binary Search Algorithm – part 1

1. The Python code is given for the *binary search* algorithm. Convert the code to correct Pearson pseudocode, then draw the flowchart diagram for the algorithm. Use the back side of the page for more space. Recall that the `//` operator in Python is integer division.

```
1 def binary_search(arr, target)
2     low = 0
3     high = len(arr) - 1
4     while low <= high:
5         mid = (low + high) // 2
6         if arr[mid] == target:
7             return mid
8         if arr[mid] < target:
9             low = mid + 1
10        else:
11            high = mid - 1
12    return -1
```