

Example of Binary search for Control-Flow Graph:—

code:

```
public class BinarySearch {  
    public boolean contains(int [] a, int b) {  
        if (a.length == 0) {  
            return false;  
        }  
        int low = 0;  
        int high = a.length - 1;  
  
        while (low <= high) {  
            int middle = (low + high) / 2;  
            if (b > a[middle]) {  
                low = middle + 1;  
            }  
            else if (b < a[middle]) {  
                high = middle - 1;  
            }  
            else { return true;  
            }  
        }  
        return false;  
    }  
}
```

Control-Flow-Graph for Binary Search :-

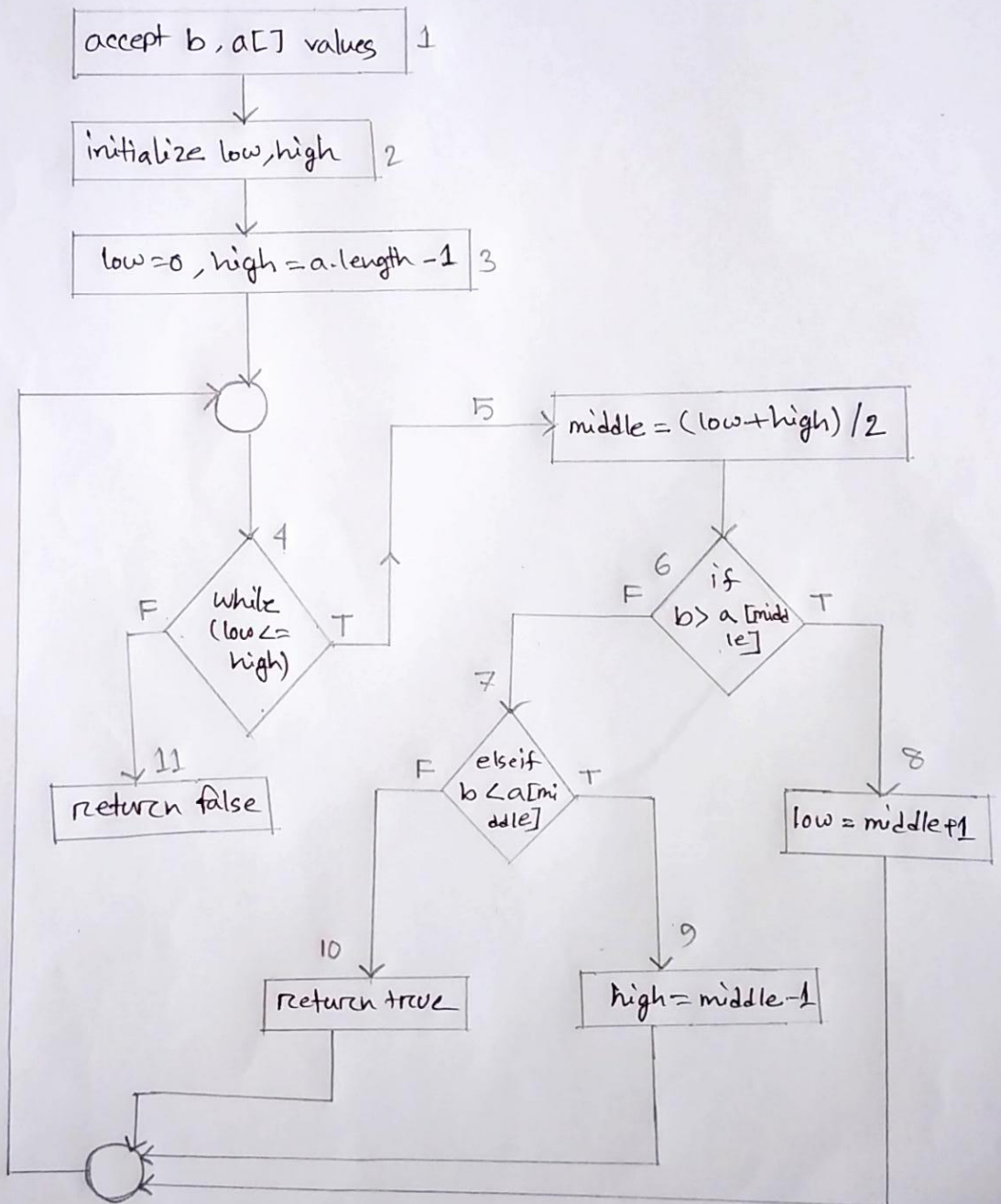


Fig: CFG Diagram for Binary Search.