

A series of vertical bars of varying heights and colors (black, purple, red, orange, yellow) are positioned on the left side of the image.

```
public static int binarySearch(int[] sortedArray, int key, int low, int high) {  
    int middle = (low + high) / 2;  
  
    if (high < low) {  
        return -1;  
    }  
  
    if (key == sortedArray[middle]) {  
        return middle;  
    } else if (key < sortedArray[middle]) {  
        return binarySearch(sortedArray, key, low, middle - 1);  
    } else {  
        return binarySearch(sortedArray, key, middle + 1, high);  
    }  
}
```