Java
Binary Search Fill in Blank worksheet #1

Name -
Period -

Fill in the blanks to this binary search algorithm:

```
public static void main(String[] args)
{
   int numbers[] = {2, 4, 5, 11, 13, 20, 34, 39, 50, 52, 68, 74, 85, 92};
   int low = 0;
   int high = numbers.length - 1;
   int mid = 0;
   boolean found = false;

   System.out.println("Enter the value you would like to search for: ");
   Scanner keyboard = new Scanner(System.in);
   int key = keyboard.nextInt();


   while (low <= high && ____________________________________ )
   {

      mid = ____________________________________________


      if (key > ____________________________________________ )
      {
         low = mid + 1;
      }
      else if (key < ____________________________________ )
      {
         high = mid - 1;
      }
      else
      {
         System.out.println("The value" + key + " was found in position " + mid);
         found = true;
      }
   }

   if (!found)
   {
      System.out.println("The value " +  key + " was not found");
   }
}
```