Name : _____   **Date : _____**

A+ Computer Science - Sort/Search Worksheet 4

1. Complete the following method `binarySearch`.   Fill in each blank below.

```
int binarySearch(int [] stuff, int val )
{
   int bot= 0, top = stuff.length-1;
   while(bot<=top)
   {
      int middle =  _____

      if (stuff[middle] == val)  return middle;
      else
         if (stuff[middle] > val)

            top = _____

         else
            bot = _____
   }
   return -1;
}
```

2. Write the `binarySearch` using recursion.

```
public static int binarySearch(int[] stuff, int item, int bot, int top)
{
```