To print from the command-line: lpr worksheet.pdf

pseudo-code algorithm for binary search:
-----------------------------------------------
set low = lowest-possible index
set high = highest possible index

LOOP while low <= high:
  1. set mid = (low + high)//2
  2. if item is equal to item at mid:
      found! return mid
     else if item is less than item at mid:
      set high = (mid - 1)
     else:
      set low = (mid + 1)

If we made it out of the loop, we didn’t find it so return -1
-----------------------------------------------

x = 99
L = [-20, -12, -4, 1, 7, 44, 45, 46, 58, 67, 99, 145]  low   mid   high
index: 0 1 2 3 4 5 6 7 8 9 10 11

1. For each value of x and L shown on the worksheet,
trace the values of low, mid and high (to the right)
assuming you called the function
   result = binary_search(x, L).

2. Show the value of result after each search

x = -10
L = [-20, -12, -4, 1, 7, 44, 45, 46, 58, 67, 99, 145]  low   mid   high
index: 0 1 2 3 4 5 6 7 8 9 10 11
x = "Sukrit"
index: 0 1 2 3 4 5 6 7 8 9 10

<table>
<thead>
<tr>
<th>low</th>
<th>mid</th>
<th>high</th>
</tr>
</thead>
</table>

x = "Jeff"
index: 0 1 2 3 4 5 6 7 8 9 10

<table>
<thead>
<tr>
<th>low</th>
<th>mid</th>
<th>high</th>
</tr>
</thead>
</table>