Trace Tables Test

1. Complete the truth table for algorithm below.

Α	В	С
3	7	-1

What is output be the last line of the algorithm?

2. Given the following array: LIST

[0]	[1]	[2]	[3]	[4]	[5]	[6]
10	13	22	38	41	59	67

and the method CRAZY.

```
method CRAZY(X)
    A = 0;
    B = 7;
    loop while A <= B
        M = (A + B) / 2;
    if LIST[M] = X)
        return M;
    else if(LIST[M] < X)
        A = M + 1;
    else
        B = M - 1;
    end if
end loop

return -1;</pre>
```

Use the trace table below to determine what is returned by a call to method CRAZY(41).

Use the trace table below to determine what is returned by a call to method CRAZY(13).

*Note: You may not need all of the rows provided in the trace tables.

Α	В	М

Α	В	М
	_	_
	_	

Return value = _____

Return value = _____

Explain what this algorithm does?