Quiz 2

Deadline	Friday, 19 June 2020 at 11:59PM
Latest Submission	no submission yet
Maximum Mark	4

Question 1 (1 mark)

Consider the Makefile

```
CC=gcc
prog : x.o y.o
x.o : x.c
y.o : y.c
```

and the directory listing

```
-rw-r--r-- 1 jas staff 230 13 Jun 15:15 Makefile
-rwxr-xr-x 1 jas staff 25004 14 Jun 20:29 prog
-rw-r--r-- 1 jas staff 2444 14 Jun 20:26 x.c
-rw-r--r-- 1 jas staff 5556 14 Jun 20:27 x.o
-rw-r--r-- 1 jas staff 11411 14 Jun 20:30 y.c
-rw-r--r-- 1 jas staff 513 14 Jun 20:27 y.o
```

What commands will be executed if we run the make command in this directory?

(a) O	No commands will be executed
(b) O	gcc -o prog x.o y.o
(c) O	gcc -c x.c gcc -c y.c gcc -o prog x.o y.o
(d) O	gcc -c x.c gcc -o prog x.o y.o

(e) O	gcc -c y.c gcc -o prog x.o y.o
(f) O	None of the above is correct

Question 2 (1 mark)

What is the maximum path length in a binary search tree containing n nodes?

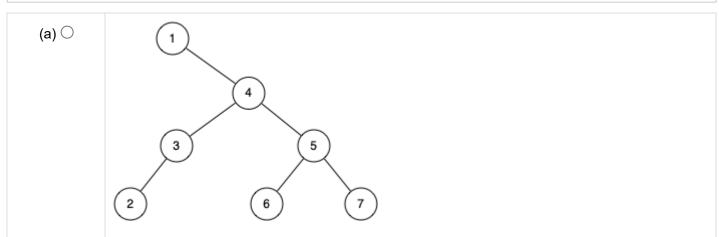
Path length = number of **links/edges** on a path from root to leaves.

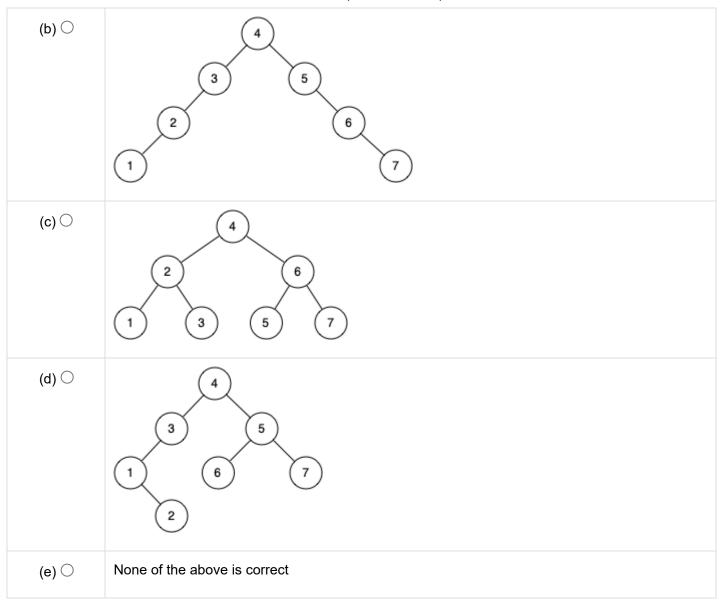
(a) O	log₂n
(b) O	n-1
(c) O	n
(d) O	n+1
(e) O	None of the above is correct

Question 3 (1 mark)

What tree results from the insertion of the following values into an initially empty binary search tree6

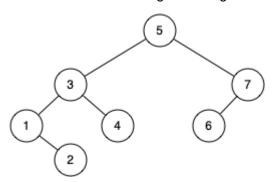
4 6 2 7 3 5 1

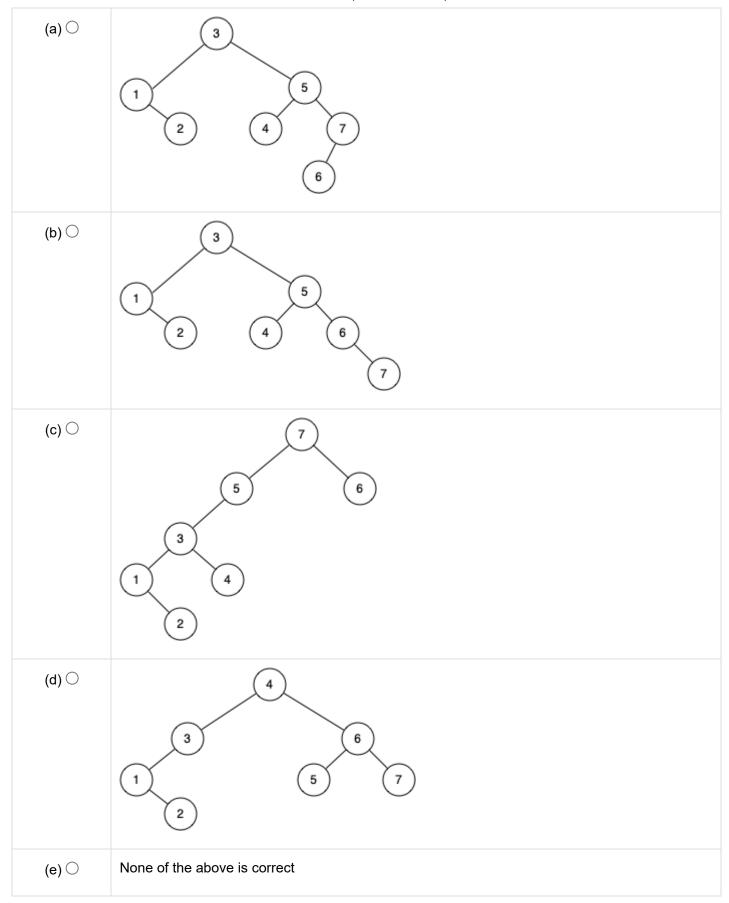




Question 4 (1 mark)

What is the tree resulting from a right rotation around the node containing 5?





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