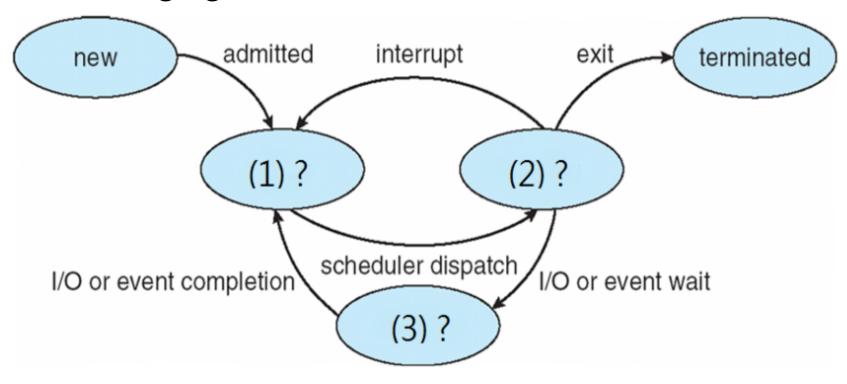
Question 1

- Assume that the fork() function is always successful
- Please show me the output

```
#include<sys/types.h>
#include<stdio.h>
#include<unistd.h>
int main()
            pid t pid, pid2;
            pid = fork();
            if (pid == 0)
                        printf("Hello, ");
                        pid2 = fork();
                        if (pid2!=0)
                                    wait(NULL);
                                    printf("the OS quiz ");
                        else
                                    printf("I would say that ");
            else
                        wait(NULL);
                        printf("is quite easy!\n");
            return 0;
```

Question 2

Please indicate the states of (1), (2), and (3) of the following figure.



Question 3

- Assume that the fork() function is always successful
- Please show me the output

```
#include<sys/types.h>
#include<stdio.h>
#include<unistd.h>
int main()
            pid t pid, pid2;
            printf("Statement 1 !\n");
            pid = fork();
            if (pid > 0)
                        wait(NULL);
            else
                        pid2 = fork();
                        if (pid2 == 0)
                                    printf("Statement 2 !\n");
                        else
                                    wait(NULL);
                                    printf("Statement 3 !\n");
                         printf("Statement 4 !\n");
            printf("Statement 5 !\n");
            return 0;
```

Answers

- Question 1: (Both of Answer 1 and Answer 2 are correct.)
 Answer 1: Hello, I would say that the OS quiz is quite easy!
 Answer 2: Hello, I would say that Hello, the OS quiz is quite easy!
- Question 2:
 - (1) ready (2) running (3) waiting
- Question 3:
 - Staement 1!
 - Staement 2!
 - Staement 4!
 - Staement 5!
 - Staement 3!
 - Staement 4!
 - Staement 5!
 - Staement 5!