CSCI 315 Operating Systems Design
Activity 5

Consider the code snippet for a process which makes a single call to **fork(2)**:

```
float x; int a[2]; int pid; int status;

int main(int argc, char *argv[]) {

      x = 3.1415926;

      a[0] = 3;

      a[1] = 4;

      pid = fork();

      if (0 != pid) {

            printf("A: a[0] = %d, a[1] = %d, x = %f\n", a[0], a[1], x); //1

            wait(&status);

            printf("A: a[0] = %d, a[1] = %d, x = %f\n", a[0], a[1], x); //2

      } else {

            printf("B: a[0] = %d, a[1] = %d, x = %f\n", a[0], a[1], x); //3

            x = 2.14;

            a[0] = 666;

            printf("B: a[0] = %d, a[1] = %d, x = %f\n", a[0], a[1], x); //4

            exit(1);

      }

      return(0);

}
```

Answer the following questions:

a) Which is the parent process: A or B?

b) Which is the child process: A or B?

c) The output produced by each of the lines (1), (2), (3), and (4)

d) The value of `status` after the call to **wait(2)**