Question 1

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

```
#include<sys/types.h>
#include<stdio.h>
#include<unistd.h>
int main()
            pid t pid, pid2;
            pid = fork();
            if (pid == 0)
                        printf("AAA");
                        pid2 = fork();
                        if (pid2 != 0)
                                    wait(NULL);
                                    printf("BBB");
                        else
                                    printf("CCC");
            else
                        wait(NULL);
                        printf("DDD");
           return 0;
```

Question 2

- Assume that the fork() function is always successful
- Please show 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;
```

Answer

AAACCCAAABBBDDD

or

AAACCCBBBDDD

► A2

- Statement 1!
- Statement 2!
- Statement 4!
- Statement 5!
- Statement 3!
- Statement 4!
- Statement 5!
- Statement 5!

