

Quiz 1

OPERATING SYSTEMS, FALL 2019
Iran University of Science and Technology

STUDENT NO.:

NAME:

Problem 0: How many '*'s are printed on the screen. Assume all *fork* system calls succeed.

part 1)

```
1 #include <stdio.h>
2 #include <unistd.h>
3
4
5 int main(int argc, char *argv[])
6 {
7     printf("*\n");
8     fflush(stdout);
9     int rc;
10    for (int i = 0; i < 3; i++) {
11        rc = fork();
12        printf("*\n");
13        fflush(stdout);
14        if (rc > 0)
15            wait(rc);
16    }
17    return 0;
18 }
```

p1.c

Note: *fflush* is used to make sure the write buffer is cleaned before forking.

part 2)

```
1 #include <stdio.h>
2 #include <unistd.h>
3
4
5 int main(int argc, char *argv[])
6 {
7     fork();
8     fork();
9     fork();
10    printf("*\n");
11    return 0;
12 }
```

p2.c

Problem 1: When writing a function in bash how can we access the passed arguments.

Problem 2: Write a for loop in bash to print the name of files in the current directory.