

Day #15 Exercise -- SOLUTIONS

What is the output of the below CSIM program?

```
#include <stdio.h>
#include "csim.h"

void process1(void);

void sim(void)
{
    int i;

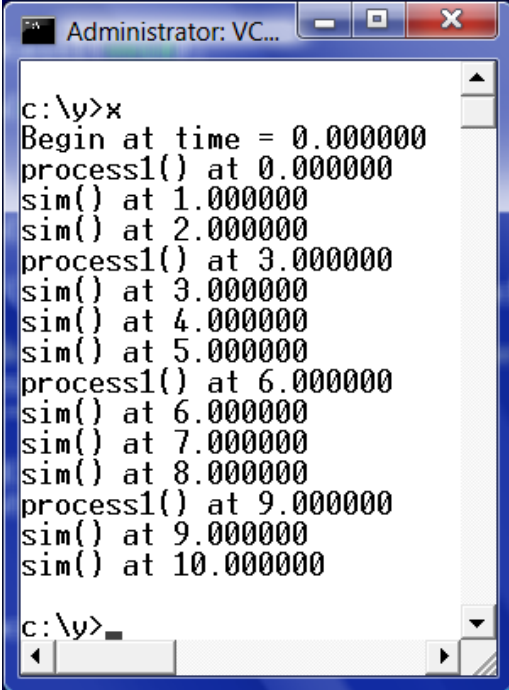
    create("sim");

    printf("Begin at time = %f \n", clock);
    process1();
    for (i=0; i<10; i++)
    {
        hold(1.0);
        printf("sim() at %f \n", clock);
    }
}

void process1()
{
    int i;

    create("process1");

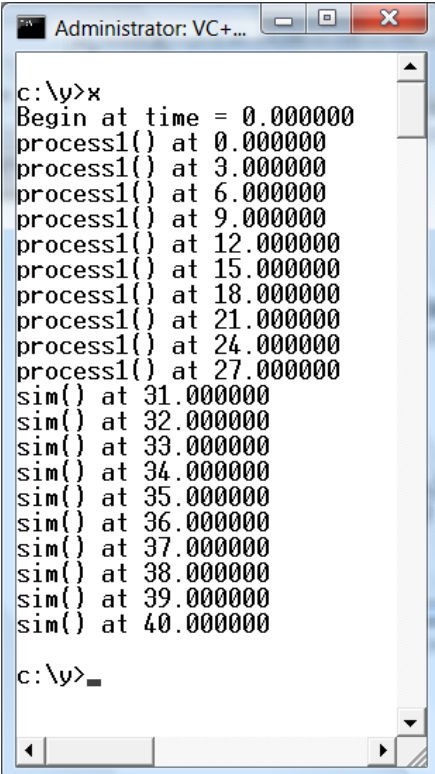
    for (i=0; i<10; i++)
    {
        printf("process1() at %f \n", clock);
        hold(3.0);
    }
}
```



```
Administrator: VC...
c:\y>x
Begin at time = 0.000000
process1() at 0.000000
sim() at 1.000000
sim() at 2.000000
process1() at 3.000000
sim() at 3.000000
sim() at 4.000000
sim() at 5.000000
process1() at 6.000000
sim() at 6.000000
sim() at 7.000000
sim() at 8.000000
process1() at 9.000000
sim() at 9.000000
sim() at 10.000000

c:\y>
```

If the statement `create("process1");` is removed from the program, what will the output be?



```
Administrator: VC+...
c:\y>x
Begin at time = 0.000000
process1() at 0.000000
process1() at 3.000000
process1() at 6.000000
process1() at 9.000000
process1() at 12.000000
process1() at 15.000000
process1() at 18.000000
process1() at 21.000000
process1() at 24.000000
process1() at 27.000000
sim() at 31.000000
sim() at 32.000000
sim() at 33.000000
sim() at 34.000000
sim() at 35.000000
sim() at 36.000000
sim() at 37.000000
sim() at 38.000000
sim() at 39.000000
sim() at 40.000000

c:\y>
```