```
#include <sys/wait.h>
#include <stdio.h>
#include <unistd.h>
int value = 5;
int main()
    pid_t pid;
    pid = fork();
    if (pid == 0)
        value += 15;
    else if (pid > 0)
        wait(NULL);
        printf("PARENT: value = %d", value); /* LINE A */
        printf("\n");
```

```
→ Assignment g++ fork1.cpp -o fork1
→ Assignment ./fork1
PARENT: value = 5
→ Assignment []
```

```
#include <sys/wait.h>
#include <stdio.h>
#include <unistd.h>
int main()
{
    int i;

    fork();
    fork();
    fork();
    printf("pid %d \n", getpid());
    return 0;
}
```

```
→ Assignment g++ fork2.cpp -o fork2

→ Assignment ./fork2

pid 210

pid 211

pid 212

pid 214

pid 213

pid 215

pid 209

pid 216

→ Assignment [
```

```
#include <sys/wait.h>
#include <stdio.h>
#include <unistd.h>
int main()
    pid_t pid;
    pid = fork();
    if (pid < 0)</pre>
        fprintf(stderr, "Fork Failed");
    else
        wait(NULL);
        printf("Child Complete");
```

```
→ Assignment g++ fork3.cpp -o fork3
→ Assignment ./fork3
Child CompleteChild Complete%
→ Assignment []
```

```
#include <sys/wait.h>
#include <stdio.h>
#include <unistd.h>
int main()
    pid_t pid, pid1;
    pid = fork();
    if (pid < 0)
        fprintf(stderr, "Fork Failed");
       return 1;
    else if (pid == 0)
        pid1 = getpid();
        printf("child: pid = %d\n", pid); /* A */
       printf("child: pid1 = %d\n", pid1); /* B */
    else
        pid1 = getpid();
        printf("parent: pid = %d\n", pid); /* C */
        printf("parent: pid1 = %d\n", pid1); /* D */
       wait(NULL);
    return 0;
```

```
→ Assignment g++ fork4.cpp -o fork4
→ Assignment ./fork4
parent: pid = 355
parent: pid1 = 354
child: pid = 0
child: pid1 = 355
→ Assignment []
```

```
#include <sys/wait.h>
#include <stdio.h>
#include <unistd.h>
#define SIZE 5
int nums[SIZE] = {0, 1, 2, 3, 4};
int main()
    pid_t pid;
    pid = fork();
    if (pid == 0)
        for (i = 0; i < SIZE; i++)</pre>
            nums[i] *= -i;
            printf("CHILD: %d \n", nums[i]); /* LINE X */
    else if (pid > 0)
        wait(NULL);
        for (i = 0; i < SIZE; i++)</pre>
            printf("PARENT: %d \n", nums[i]); /* LINE Y */
```

```
→ Assignment g++ fork5.cpp -o fork5

→ Assignment ./fork5

CHILD: 0

CHILD: -1

CHILD: -4

CHILD: -9

CHILD: -16

PARENT: 0

PARENT: 1

PARENT: 1

PARENT: 2

PARENT: 3

PARENT: 4

→ Assignment [
```