Fork()

• Eksekusi fork antara parent dan child nondeterministic (tidak ada hubungan 1 dengan yang lain) dan terjadi secara concurrently(Bersamasama)

• parent & child identik tapi terpisah

```
void fork1 () {
   int x = 1;

if (fork() == 0) {
     printf("Child has x = %d\n", ++x);
   } else {
     printf("Parent has x = %d\n", --x);
   }
}
```

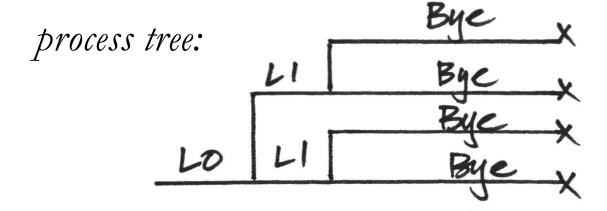
Parent has x = 0

Child has x = 2

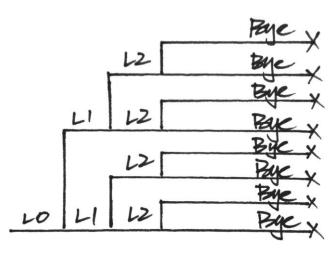
```
void fork2() {
    printf("L0\n");
    fork();
    printf("L1\n");
    fork();
    printf("Bye\n");
}
```

```
L0
L1
L1
Bye
Bye
Bye
Bye
```

```
void fork2() {
    printf("L0\n");
    fork();
    printf("L1\n");
    fork();
    printf("Bye\n");
}
```



```
void fork3() {
    printf("L0\n");
    fork();
    printf("L1\n");
    fork();
    printf("L2\n");
    fork();
    printf("Bye\n");
}
```



Tugas: Amati Hasilnya dan Buat peta tree processnya

```
void fork4() {
    printf("L0\n");
    if (fork() != 0) {
        printf("L1\n");
        if (fork() != 0) {
            printf("L2\n");
            fork();
        }
        printf("Bye\n");
}
```

Tugas: Amati Hasilnya dan Buat peta tree processnya

```
void fork5() {
    printf("L0\n");
    if (fork() == 0) {
        printf("L1\n");
        if (fork() == 0) {
            printf("L2\n");
            fork();
        }
        printf("Bye\n");
}
```