Fun with File Descriptors.

(1)

c1 = a, c2 = a, c3 = b

(2).

Parent: c1 = a, c2 = b
Child: c1 = a, c2 = c. (if PID of parent process is even)

or

Child: c1 = a, c2 = b
Parent: c1 = a, c2 = c. (if PID of parent process is odd)

(3)

pqrswxyzaef

Result of p.40 of 05-10.

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jaejun@jaejun-ZenBook-UX433FN-UX433FN:~/Downloads/code$ strace ./hello
execve("./hello", ["./hello"], 0x7ffcbd0983c0 /* 58 vars */) = 0
brk(NULL)                               = 0x55bbe23ce000
arch_prctl(0x3001 /* ARCH_??? */, 0x7fff7960c0f0) = -1 EINVAL (Invalid argument)
access("/etc/ld.so.preload", R_OK)      = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0644, st_size=65514, ...}) = 0
mmap(NULL, 65514, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7fc82f22d000
close(3)                                = 0
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\300A\2\0\0\0\0\0"..., 832) = 832
pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784
pread64(3, "\4\0\0\0\20\0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0", 32, 848) = 32
pread64(3, "\4\0\0\0\24\0\0\0\3\0\0\0GNU\0\30x\346\264ur\f|Q\226\236i\253-'o"..., 68, 880) = 68
fstat(3, {st_mode=S_IFREG|0755, st_size=2029592, ...}) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7fc82f22b000
pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784
pread64(3, "\4\0\0\0\20\0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0", 32, 848) = 32
pread64(3, "\4\0\0\0\24\0\0\0\3\0\0\0GNU\0\30x\346\264ur\f|Q\226\236i\253-'o"..., 68, 880) = 68
mmap(NULL, 2037344, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7fc82f039000
mmap(0x7fc82f05b000, 1540096, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x22000) = 0x7fc82f05b000
mmap(0x7fc82f1d3000, 319488, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x19a000) = 0x7fc82f1d3000
mmap(0x7fc82f221000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1e7000) = 0x7fc82f221000
mmap(0x7fc82f227000, 13920, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7fc82f227000
close(3)                                = 0
arch_prctl(ARCH_SET_FS, 0x7fc82f22c540) = 0
mprotect(0x7fc82f221000, 16384, PROT_READ) = 0
mprotect(0x55bbe05b8000, 4096, PROT_READ) = 0
mprotect(0x7fc82f26a000, 4096, PROT_READ) = 0
munmap(0x7fc82f22d000, 65514)           = 0
fstat(1, {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0x1), ...}) = 0
brk(NULL)                               = 0x55bbe23ce000
brk(0x55bbe23ef000)                     = 0x55bbe23ef000
write(1, "hello\n", 6hello
)                       = 6
exit_group(0)                           = ?
+++ exited with 0 +++
```