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(1Q

```
int main(){
      int pid = getpid();
      int ppid = getppid();
      r = fork();
         printf("child process: pid=%d
                               ppid=%d\n", getpid(), getppid());
17
      r = fork();
      if (r == 0){
         printf("child process: pid=%d
                               ppid=%d\n", getpid(), getppid());
      r = fork();
      if (r == 0){
         wait(NULL);
      wait(NULL);
      wait(NULL);
```

```
osoolian_99521073@99521073:~/Desktop$ gcc -lpthread q1.c
osoolian 99521073@99521073:~/Desktop$ ./a.out
main program: pid=3989
                           ppid=2657
child process: pid=3990
                           ppid=3989
child process: pid=3991
                           ppid=3989
child process: pid=3995
                           ppid=3991
child process: pid=3993
                           ppid=3990
child process: pid=3994
                           ppid=3990
child process: pid=3996
                          ppid=3993
child process: pid=3992
                           ppid=3989
osoolian 99521073@99521073:~/Desktop$
```

```
(Q2
```

```
osoolian_99521073@99521073:~/Desktop$ top -n 1 | awk ' NR > 6 {print $2}' | head
    -n 4
PID
1022
4013
1
osoolian_99521073@99521073:~/Desktop$
```