

In-Class Problems: forkprint

Here is a threaded program:

```
main() {
    helper(NULL,0);
}

void
helper(void *p, unsigned long i) { /* parameter p is not used */
    if (i < 3) {
        kprintf("%ld",i); /* print the value of i */
        thread_fork("helper1",NULL,helper,NULL,i+1); /* fork thread to run helper(NULL,i+1) */
        thread_fork("helper2",NULL,helper,NULL,i+1); /* fork thread to run helper(NULL,i+1) */
    }
    if (i==0) {
        kprintf("%ld",i);
    }
    thread_exit();
}
```

Which of the following outputs could possibly be generated by this program?

- a. 01221220
- b. 01120222
- c. 01342560
- d. 01222120
- e. 01122220
- f. 01234560
- g. 01212220
- h. 00112222