Operating Systems

In-Class Problems: forkprint

```
Here is a threaded program:
main() {
   helper(NULL,0);
}
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
```