## Problem 55. (10 points):

Consider the C program below. (For space reasons, we are not checking error return codes, so assume that all functions return normally.)

```
int main () {
    if (fork() == 0) {
        if (fork() == 0) {
           printf("3");
        }
        else {
            pid_t pid; int status;
            if ((pid = wait(&status)) > 0) {
                printf("4");
    }
    else {
        printf("2");
        exit(0);
    printf("0");
    return 0;
}
```

For each of the following strings, circle whether (Y) or not (N) this string is a possible output of the program.

A. 32040 Y N
B. 34002 Y N
C. 30402 Y N
D. 23040 Y N
E. 40302 Y N