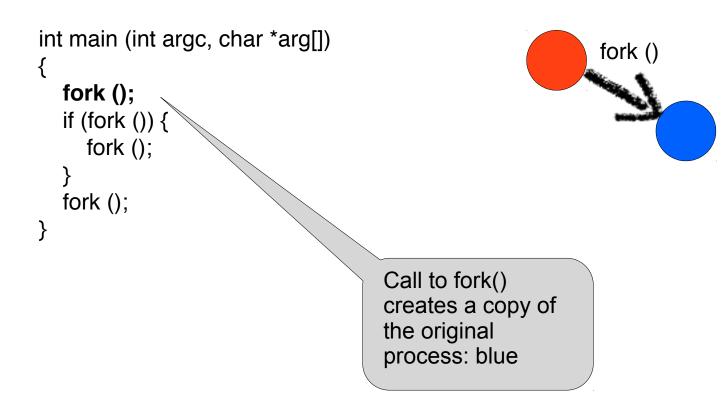
• Let's show each process as a circle...

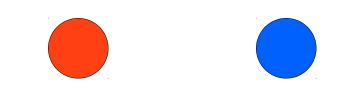
```
int main (int argc, char *arg[])
{
    fork ();
    if (fork ()) {
        fork ();
    }
    fork ();
}
```



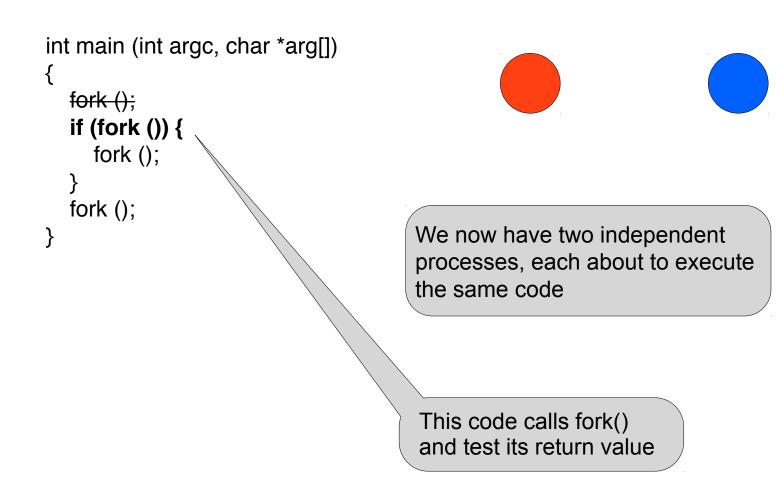
Red: original process right when main begins

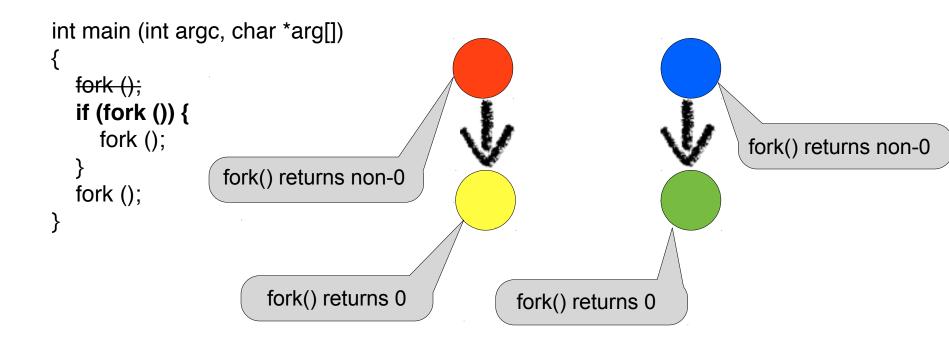


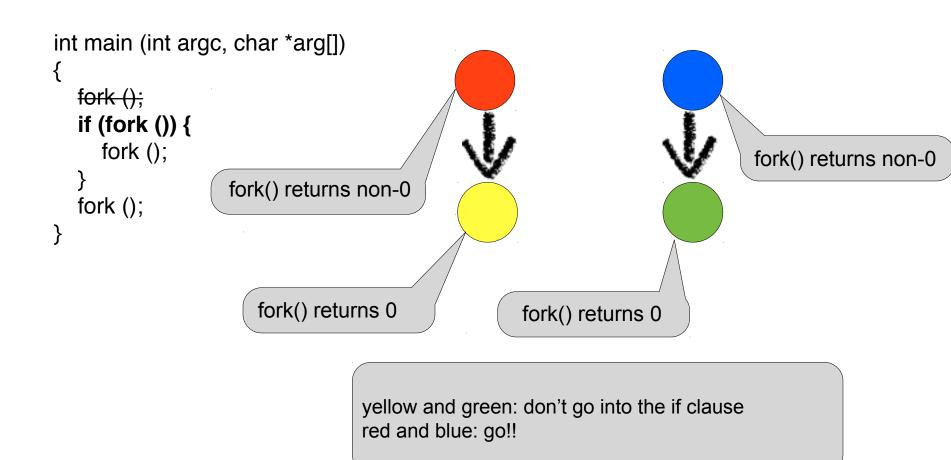
```
int main (int argc, char *arg[])
{
    fork ();
    if (fork ()) {
        fork ();
    }
    fork ();
}
```

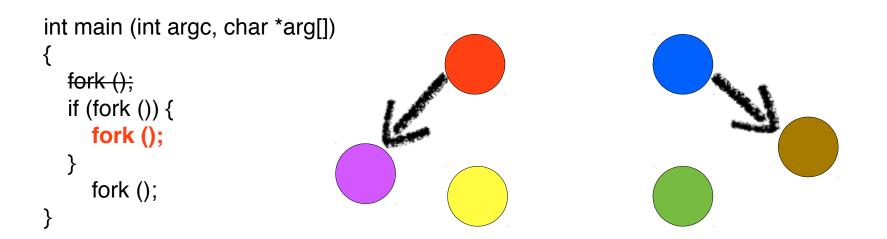


We now have two independent
processes, red and blue, each about
to execute the same code
Note:
 if (value) {
 Executed if value != 0
 } else {
 Executed if value == 0
 }
}

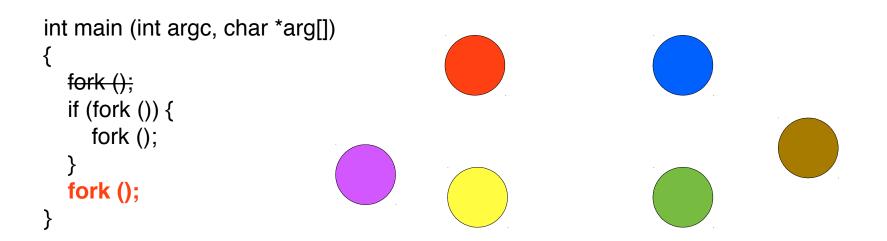








red and blue each creates a new child process (purple an brown)



ALL processes execute the last call to fork() red, purple, blue and brown after they exit from the if clause yellow and green after they skip the if clause We have 6 processes calling fork(), each creating a new process So we have a total of **12 processes** at the end, one of which was the original process