

2) Yes, exec call returns an error. Exec is called it replaces the current running problem with a new problem, which uses same stack. If the size of new process is larger than the size of stack allocated to the current process then an error is returned. If the path that is given leads to an illegal address. These are some errors that can occur that would cause exec call to return an error.

5)

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Carlo@???????????? ~/CSCI114Code
$ ./a.exe
10      27      -1
28      61      -7
41      45      -23
69      33      -51
```

10) Program 1 output: 6 6

Program 2 output: 6

Since fork creates a copy of the parent then for program 1 the program will return 6 twice because the parent will return, then the child will return.

For the second program the fork copies the parent. The child program exits before it can print and then the parent print 6.