**RISCV workflow**

The program begins in the main function inside of sh.c:

A computer screen with many colorful text

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The program attempts to open a console if its already not open. After that it attempts to read input commands through getcmd(). Otherwise if a command is entered, fork() is called and a child is created to run the command.  
A computer screen with text and numbers

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getcmd() works the following way (updated to accommodate the history command):  
A screen shot of a computer program

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It prints the dollar sign and reads the buffer. Checks are made to make sure if it is a blank command, ‘cd’ command or any other command which can either be invalid or an actual syscall of xv6.

After that runcmd() uses a switch case to choose which type of command was executed:  
A computer screen shot of text

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Runcmd contains different types of commands:  
A screenshot of a computer

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In our case the question asks for the execution of the program, so runcmd calls exec()  
Exec():  
  
exec looks up the executable file on the disk. Loads the program into memory, sets up user stack arguments and starts the execution of the file. It is to be noted that exec is a system call and therefore requires assistance from the kernel.

A diagram of a program

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