

```

#include <unistd.h>
#include <stdlib.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/wait.h>

int main(int argc, char * argv[]){
    //arguments for ls, will run: ls -l/bin
    char * ls_args[3] = { "ls", "-l", NULL} ;
    pid_t c_pid, pid;
    int status;

    c_pid = fork();
    for(int i=0;i<=4;i++)
    {
    if (c_pid == 0){
        /* CHILD */

        printf("Child: executing ls\n");
        execvp( ls_args[0], ls_args);
        perror("execve failed");
    }else if (c_pid > 0){
        /* PARENT */

        if( (pid = wait(&status)) < 0){
            perror("wait");
            _exit(1);
        }
    }
}

```

```

printf("Parent: finished\n");

}else{
    perror("fork failed");
    _exit(1);
}

}

return 0; //return success
}

```

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Child: executing ls

total 17821888

```

-rw-----@ 1 dewbabyo staff 430689 Feb 22 2017
183_Osei_Henry_Lab2_Problem4_Final.docx
-rw-r--r--@ 1 dewbabyo staff 14039 Feb 27 01:17 4.docx
-rw-r--r--@ 1 dewbabyo staff 48880 Mar 10 23:07 941013Assignment1_Solution.pdf
-rw-r--r--@ 1 dewbabyo staff 1615 Apr 4 12:32 AES
drwxr-xr-x 7 dewbabyo staff 224 Dec 3 01:04 Assignment 4 Osei, Henry
drwxr-xr-x 22 dewbabyo staff 704 Dec 6 07:23 Assignment 5
-rw-r--r-- 1 dewbabyo staff 0 Feb 17 18:24 Assignment1
drwxr-xr-x@ 9 dewbabyo staff 288 Feb 17 18:24 Assignment1(Osei, Henry) 2 2
drwxr-xr-x 7 dewbabyo staff 224 Dec 3 01:04 Assignment2(Osei, Henry)
-rw-r--r--@ 1 dewbabyo staff 4417 Mar 9 2018 Assignment2(Osei, Henry).zip

```

drwxr-xr-x	6	dewbabyo	staff	192	Apr 2	2018	Assignment3_Osei, Henry
-rw-r--r--	1	dewbabyo	staff	1721	Apr 27	2018	Assignment5_Problem2.java~
-rw-r--r--@	1	dewbabyo	staff	249224244	Jan 26	19:31	Biology.pdf
drwxr-xr-x	15	dewbabyo	staff	480	Sep 18	2018	CODING PROJECTS
drwxr-xr-x	3	dewbabyo	staff	96	Dec 3	01:05	COSC 310 BOOKS
drwxr-xr-x	3	dewbabyo	staff	96	Feb 16	14:23	COSC 412
drwxr-xr-x	3	dewbabyo	staff	96	Jan 26	19:30	COSC 457
drwxr-xr-x	5	dewbabyo	staff	160	Feb 28	14:44	Code
-rw-r--r--@	1	dewbabyo	staff	992	Jan 18	2018	Cone.html
-rw-r--r--@	1	dewbabyo	staff	125470	Jan 25	16:20	Cover_Letter_Henry Osei.pdf
-rw-r--r--@	1	dewbabyo	staff	258586	Apr 2	21:12	Cryptography_314_Book.pdf
drwxr-xr-x	8	dewbabyo	staff	256	Jan 17	2018	DEMO
drwx-----@	25	dewbabyo	staff	800	Dec 23	2017	Dashboard_files
-rw-r--r--@	1	dewbabyo	staff	14249	Mar 17	12:37	Dear Mrs.docx
-rw-r--r--@	1	dewbabyo	staff	12079	Feb 28	12:05	Description.docx
-rw-r--r--@	1	dewbabyo	staff	1887	Mar 3	20:39	Diagram1.dia
-rw-r--r--	1	dewbabyo	staff	1779	Mar 3	20:38	Diagram1.dia~
-rw-r--r--@	1	dewbabyo	staff	21005	Mar 3	20:39	Diagram1.jpeg
-rw-r--r--	1	dewbabyo	staff	1821	Mar 3	20:51	Diagram2.dia
-rw-r--r--	1	dewbabyo	staff	1820	Mar 3	20:49	Diagram2.dia~
-rw-r--r--	1	dewbabyo	staff	1992	Mar 3	21:02	Diagram3.dia
-rw-r--r--@	1	dewbabyo	staff	20112	Mar 3	21:02	Diagram3.jpeg
-rw-r--r--@	1	dewbabyo	staff	19101	Mar 3	21:15	Diagram4.jpeg
drwxr-xr-x	63	dewbabyo	staff	2016	Dec 3	01:03	DrJava
-							
-rwxr-xr-x	1	dewbabyo	staff	8788	Apr 8	12:49	trial2
-rw-r--r--@	1	dewbabyo	staff	1999503360	Feb 14	00:11	ubuntu-18.10-desktop-amd64.iso
-rw-----@	1	dewbabyo	staff	162	Mar 15	2017	~\$THESIS.docx
-rw-----@	1	dewbabyo	staff	162	Mar 29	2017	~\$VA FORMAT .docx
-rw-----@	1	dewbabyo	staff	162	Oct 3	2017	~\$er 3_Osei_Henry.docx

-rw-r--r--@ 1 dewbabyo staff	162 Feb 8 00:25 ~\$f stringShift.docx
-rw-----@ 1 dewbabyo staff	162 Dec 3 02:55 ~\$mple_resume_computer_science.doc
-rw-----@ 1 dewbabyo staff	162 Mar 15 2017 ~\$notated BiblioGrap.docx
-rw-----@ 1 dewbabyo staff	162 Dec 8 17:43 ~\$sume_Henry.docx
-rw-----@ 1 dewbabyo staff	162 Mar 20 2017 ~\$sume_HenryOsei.docx
-rw-----@ 1 dewbabyo staff	162 May 21 2017 ~\$tes_7_Methods_Overview_Void
(1).docx	
-rw-----@ 1 dewbabyo staff	162 May 21 2017 ~\$thodFlowDiagram_Void(1) (1).docx
-rw-----@ 1 dewbabyo staff	162 Apr 18 2017 ~\$ver letter.docx
-rw-r--r--@ 1 dewbabyo staff	162 Dec 11 14:17 ~\$view-Exam1-Answer (4).doc

Parent: finished

wait: No child processes