

# Real Time Systems, January 2024

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## Child Processes execute different Programs

**Opened:** Monday, 22 January 2024, 9:00 AM

**Due:** Friday, 2 February 2024, 11:59 PM



Write a complete, user-friendly, well-documented and nicely-indented C program which when executed as `./a.out executable1 executable2 ... executableN` creates N child processes where the 1st child process executes the 1<sup>st</sup> executable file (given by `executable1`). 2<sup>nd</sup> executes the 2<sup>nd</sup> executable file (given by `executable2`) and so on. In case you have doubts regarding command line arguments in C programming, you may please consult the sample program (forkN.c) given in the lesson.

Please upload the program file(s)! If you have written your own programs for `executable1 executable2 ... executableN`, please upload those programs as well. You may provide any relevant information wrt your programs through the text-area field in the submission page.

Explore what happens when in place of executable files the user provides (i) a C program file (ii) a directory (iii) a non-existent file (name), etc., for execution.

**Write your observation and justification for this in the text-area available in the submission page.**

### Submission status

Attempt number	This is attempt 1.	
Submission status	Submitted for grading	
Grading status	Not graded	
Time remaining	Assignment was submitted 2 days 23 hours early	
Last modified	Wednesday, 31 January 2024, 12:29 AM	
Online text	<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div>(51 words)</div></div><p>It is observed that a process can be forked to create a child process to execute another process using the <code>execve()</code> function.</p><p>On passing a...</p></div>	
File submissions	<div><div><div></div><div></div></div><div><a href="#">program5.c</a></div></div>	30 January 2024, 11:51 PM
Submission comments	<div><div></div><div><a href="#">Comments (0)</a></div></div>	

[◀ Try the sample programs shown in the above lesson](#)

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[Child Processes execute Programs with command line arguments \(say, with switches\) ▶](#)

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