

- How many processes does this program include? = $(2^4 - 1) = 15$
- How many processes print the message 'This is the End (The Doors)' ? = **3**
- What messages will be printed on the screen when this program runs:

Main started

This is the End (The Doors)

Hi from Funct2

This is the End (The Doors)

Hi from Funct2

This is the End (The Doors)

Cheers from our world !

Cheers from our world !

C Online Compiler

```

main.c
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <unistd.h>
4
5
6 int main() {
7     printf("\nMain started \n");
8     if (fork()==0)
9         funct2();
10    else if (fork()==0)
11        funct1();
12
13    printf("\nThis is the End (The Doors) \n");
14    exit(EXIT_SUCCESS);
15 }
16 void funct1() {
17     fork();
18     execlp("echo", "echo", "Cheers", "from our world !", (char*)0);
19     perror("execlp");
20     exit(EXIT_FAILURE);
21 }
22 void funct2() {
23     fork();
24     printf("\nHi from Funct2");
25 }
26
  
```

Output

```

/tmp/mrtNjheGQr.o
Main started
This is the End (The Doors)

Hi from Funct2
This is the End (The Doors)

Hi from Funct2
This is the End (The Doors)
Cheers from our world !
Cheers from our world !
  
```

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