

`/*distinguish between parent and child process*/`

`#include <stdio.h>`

`#include <string.h>`

`#include <unistd.h>`

`#include <sys/types.h>`

`#define MAX_COUNT 5`

`#define BUF_SIZE 100`

`void main()`

`{`

`pid_t pid;`

`int i;`

`char buf[BUF_SIZE];`

`fork();`

`pid = getpid();`

`for (i = 1; i <= MAX_COUNT; i++) {`

`sprintf(buf, "This line is from pid %d, value = %d\n", pid, i);`

`write(1, buf, strlen(buf));`

`}`

`}`

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main.c

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```
1 #include <stdio.h>
2 #include <string.h>
3 #include <unistd.h>
4 #include <sys/types.h>
5 #define MAX_COUNT 5
6 #define BUF_SIZE 100
7 void main()
8 {
9     pid_t pid;
10    int i;
11    char buf[BUF_SIZE];
12
13    fork();
14    pid = getpid();
15    for (i = 1; i <= MAX_COUNT; i++) {
16        sprintf(buf, "This line is from pid %d, value = %d\n", pid, i);
17        write(1, buf, strlen(buf));
18    }
19 }
20
```

```
/tmp/muhKXGijzA.o
This line is from pid 3777, value = 1
This line is from pid 3777, value = 2
This line is from pid 3777, value = 3
This line is from pid 3777, value = 4
This line is from pid 3777, value = 5
This line is from pid 3778, value = 1
This line is from pid 3778, value = 2
This line is from pid 3778, value = 3
This line is from pid 3778, value = 4
This line is from pid 3778, value = 5
```

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