

1.

```
#include <stdio.h>
```

```
#include <unistd.h>
```

```
#include <fcntl.h>
```

```
#include <sys/errno.h>
```

```
#include <stdlib.h>
```

```
int main(int argc, char *argv[])
```

```
{
```

```
    int fd;
```

```
    char read_byte, input_pattern = 'a', output_pattern = '$';
```

```
    if (argc != 2)
```

```
    {
```

```
        write(STDOUT_FILENO, 'less arguments', 14);
```

```
        exit(0);
```

```
    }
```

```
    else
```

```
    {
```

```
        fd = open(argv[1], O_RDWR);
```

```
        if (fd != -1)
```

```
        {
```

```
            while (read(fd, &read_byte, 1) > 0)
```

```

    {
        if (read_byte == input_pattern)
        {
            lseek(fd, -1, SEEK_CUR);

            write(fd, &output_pattern, sizeof(output_pattern));
        }

    }

    close(fd);

}

else
{

    write(STDOUT_FILENO, &errno, sizeof(errno));

    perror("File Open");

    exit(0);

}

}

return 0;

}

```

2.

```
#include <stdio.h>
```

```
#include <sys/types.h>
```

```
#include<wait.h>

#include<unistd.h>

#include <dirent.h>

#include <stdlib.h>

#include<sys/errno.h>
```

```
void show_content(){

    DIR *d;

    struct dirent *dir;

    d = opendir(".");

    if (d)

    {

        printf("\nContent of the current directory goes here...");

        while ((dir = readdir(d)) != NULL)

        {

            printf("\n%s", dir->d_name);

        }

        closedir(d);

    }

}
```

```
int main(int argc, char *argv[])

{

    pid_t pid;
```

```
int status;

pid = fork();

if (pid == 0)
{
    printf("\n Entered in child...");

    show_content();

    printf("\n child finishes execution...");

}
else if (pid > 0)
{
    wait(&status);

    printf("\nEntered in parent...");

    printf("\nParent process finishes execution...");

}
else
{
    perror("Fork Open failed");

    exit(errno);

}

return 0;

}
```