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Assignment 3

Implement a program for inter process communication using the pipe mechanism. The program should sent a message to the second process. The receiving process should reverse the string.

```
In vi ass3.cpp
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include <sys/wait.h>
void processA(int);
void processB(int);
void processA(int writefd)
{
  int len;
  char buff[80];
  printf("Enter a string: ");
  fgets (buff,80,stdin);
  len=strlen(buff);
  if(buff[len-1]=='\n')
```

```
len--;
  write(writefd,buff,len);
}
void processB(int readfd)
{
  int n,i,j;
  char str[80],temp;
  n=read(readfd,str,80);
  str[n]='\setminus 0';
  i=0;
  j=strlen(str)-1;
  while(i<j)
  {
     temp=str[i];
     str[i]=str[j];
     str[j]=temp;
     i++;
     j--;
  printf("Reversed string: %s\n",str);
}
int main(void) {
  int pipe1[2];
  pid_t childpid;
  pipe(pipe1);
```

```
childpid = fork();
if (childpid==0)
{
    close (pipe1[1]);
    processB (pipe1[0]);
}
else
{
    close (pipe1[0]);
    processA (pipe1[1]);
}
return EXIT_SUCCESS;
```

Output:

```
~> vi asso.cpp
~$ g++ ass3.cpp
~$ ./a.out
Enter a string: fiza
~$ Reversed string: azif
~$ ■
```