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#include<stdio.h>
#include<unistd.h>
#include<sys/types.h>
#include<ctype.h>
// Function to convert a string to uppercase
void convert(char *str);
int main()
  int fd1[2]; // Pipe for parent to child communication
  int fd2[2]; // Pipe for child to parent communication
  char buff[10]; // Buffer to store data from pipe
  char buff3[10]; // Buffer to store the transformed data
  pid_t x; // Process ID
  // Create two pipes
  pipe(fd1);
  pipe(fd2);
  // Fork the process (creating a child process)
  x = fork();
  // Child process block (x == 0)
  if(x == 0)
    // Close the write end of fd1 as we are only reading from it
```

```
close(fd1[1]);
  // Read data from the parent through fd1 (up to 6 bytes)
  read(fd1[0], buff, 6);
  // Convert the string to uppercase
  convert(buff);
  // Close the read end of fd1
  close(fd1[0]);
  // Close the read end of fd2 as we are writing to it
  close(fd2[0]);
  // Write the transformed string to fd2 (send it to the parent)
  write(fd2[1], buff, 6);
  // Close the write end of fd2
  close(fd2[1]);
}
else
{
  // Parent process block (x != 0)
  // Close the read end of fd1 as we are only writing to it
  close(fd1[0]);
  // Write the string "hello" to fd1 (send it to the child)
  write(fd1[1], "hello", 6);
  // Close the write end of fd1
  close(fd1[1]);
  // Close the write end of fd2 as we are only reading from it
  close(fd2[1]);
  // Read the transformed string from fd2 (from the child)
  read(fd2[0], buff3, 6);
```

```
// Print the transformed string
  printf("msg=%s\n", buff3);
}

return 0;
}

// Function to convert the string to uppercase
void convert(char *str)

{
    // Loop through each character of the string and convert to uppercase
    while(*str != "\0")
    {
        *str = toupper(*str);
        str++;
    }
}
```