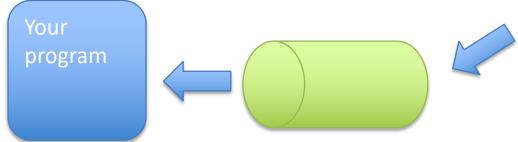
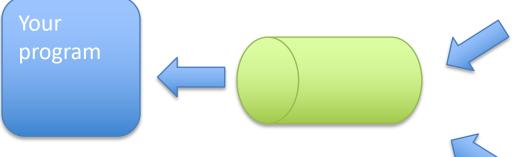
- Redirection is not specifically a C concept
 - I won't get into the details about what it is exactly
 - I will just talk about how to use it
- You can just think that when you are taking standard input from your keyboard, we are redirecting that to a file
- I will show an example of this today





When you are using stdin (standard input), we are usually talking about you using your keyboard to get information into your program.





With redirection, we are now saying that standard input will come from a file, not the keyboard



- Note that this is different than actually creating a program to read a file
 - We are NOT creating a FILE pointer or using the function fopen
 - We are simply redirecting the information going into stdin from the keyboard to a file
- Command line:
 - Program < file.txt (read in from a file instead of the keyboard)
 - Program > file.txt (output to a file instead of the screen)

```
When not using redirection, we can read in a file
#include <stdio.h>
                                       in the spots where the user would normally type
#include <string.h>
                                       input:
int main(void)
    char line [40];
    fgets(line, 40, stdin);
                                   User would type input here
    printf("%s", line);
                                   We can output what the user typed here
    fgets(line, 40, stdin);
                                   User would type input here
    printf("%s", line);
                                   We can output what the user typed here
```

```
Normally, a program like this would expect the
#include <stdio.h>
                                        user to type input and then we would output it to
#include <string.h>
                                        screen:
int main(void)
     char line [40];
                                    Read in a line of the file (using redirection)
     fgets(line, 40, stdin);
                                    User would type input here
     printf("%s", line);
                                   We can output what the user typed here we got from the file
    fgets(line, 40, stdin);
                                    Read in a line of the file (using redirection)
                                    User would type input here
     printf("%s", line);
                                   We can output what the user typed here we got from the file
```

Command line:

computer\$./a.out < somefile.txt here's a line in the file here's another line in the file **Using redirection**

Program 1

Simple redirection examples