

BO Assignment Due: March 31st, 2021

A colleague has proposed the following program as a simple means of copying the first command-line argument to a local variable. You are asked to demonstrate that it is an insecure program by showing that it may allow for the execution of an arbitrary command (which would be serious if such a program was given high privileges).

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

main(int argc, char** argv){
char s[1000];
strcpy(s, argv[1]);
puts("Hello: "); puts(s);
}
```

You may wish to use DVL for your testing (make sure you run the DVL image in an isolated environment that is not connected to your network for example using virtualBox found at: <https://www.virtualbox.org/>).

DVL is available at: <https://drive.google.com/open?id=122duqLzkZ-lZ0EjpXD0aI9ED0V2B3eN9>