## DIAGONAL - BINARY FILES

This and all future assignments must use the exception handling features described in the assignment guides.

Create a directory with a meaningful name to be the working directory for this assignment development.

In the assignment development working directory do the following steps.

Copy diagonal.cpp and LineInfo.h from the professor's Linux account directory to your working directory:

Professor's path and filename:

~smd013000/courses/3377/assigns/02/diagonal.cpp

Build the application naming the execution file diagonal.

Run the execution file diagonal with Funny! as the argument.

The binary file outputted by the program will be diagonal.bin.

Use od -c command on the diagonal.bin binary output file to see the diagonal.bin contents.

The result of the octal dump command on the binary file treats the contents of the file as characters.

The output should look like :

0000400

od -c diagonal.bin																
0000000	F															
0000020	•	U														
0000040			N													•
0000060	•			N												•
0000100	•				Y											
0000120	•					!										
0000140	•															•
*																

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Copy the successful diagonal.cpp to diagonal2.cpp.

Enhance the diagonal2.cpp file to handle any number of words as arguments.

Build a diagonal2 execution file - diagonal2.

Execute the following command:

./diagonal WoW Sumptuous

A pattern like as shown below should be produced by the OD command.

```
{cslinux1:~} od -c diagonal2.bin
0000000
0000020
              0
0000040
0000060
0000400
0000420
0000440
                                                                 m
0000460
                                                            р
0000500
                                                        t
0000520
                                                    u
0000540
                                                0
0000560
                                            u
0000600
                                       S
0000620
0001000
{cslinux1:~}
```

Capture the correct runs of diagonal2.cpp and the od on binary file in an activities file.

Zip up the activity file and the diagonal2.cpp and LineInfo.h to submit the assignment.