

*CST142 – Programming in C*  
*Lab 4b*

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**Build a “Prime number” program that tells the user to input a value and tells them whether or not you gave it a Prime number.**

**Use a two dimensional array that creates and stores the values of the multiplication table from 1 to 12 using loops. Then ask the user for a value between 1 and 144, and have it search the two-dimensional array for that value. If it finds the value, have the program display the two numbers that multiply to create that value. If it is not found, have the program tell the user that they have found a “prime” number. Have the program ask the user if they would like to try again. If they answer yes, have them loop through the program again. If they answer no, have the program print the proper closing remarks (i.e. “goodbye”).**

**Submit a screen shot of the working code and the output as a PDF in iLearn under Lab4b in dropbox.**