

# Solutions to Lab 1

There are many possible solutions. A reasonable one is shown below.

```
/*
APSC 380 Lab 1 - Simple C Program

Read two digits and print the corresponding number of dots
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*/

#include <stdio.h>

main()
{
    int c1, c2, n ;

    /* read two characters and echo */

    c1 = getche ( stdin ) ;
    c2 = getche ( stdin ) ;

    /* check that both are digits */

    if ( c1 < '0' || c1 > '9' || c2 < '0' || c2 > '9' ) {
        printf ( "Error: both characters must be digits\n" ) ;
    } else {

        /* compute the number of dots to be printed */

        n = ( c1 - '0' ) * 10 + ( c2 - '0' ) ;

        /* print that many dots on a line by itself */

        printf ( "\n" ) ;
        while ( n > 0 ) {
            printf ( "." ) ;
            n = n - 1 ;
        }
        printf ( "\n" ) ;
    }
}
```