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//Example 16
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

typedef enum boolean
{false, true}
logical;

//enum boolean checkdecimal (char);
logical checkdecimal (char);

int main()
{
    int i, l;
    logical isdecimal;
    char string[81];
    printf("Enter a string: ");
    gets(string);
    l = strlen(string);
    printf("You entered:\n%s\n", string);
    for (i = 0; i < l; i++)
    {
        isdecimal = checkdecimal ( string[i] );
        if (isdecimal == true)
            printf("character %d, %c, is a decimal digit\n",i, string[i]);
        else
            printf("character %d, %c, is not a decimal digit\n",i, string[i]);
    }
    system("pause");
    return 0;
}

logical checkdecimal (char c)
{
    logical isdecimal = true;
    if ( c < '0' || c > '9')
        isdecimal = false;
    return isdecimal;
}
```