3. Reversing a string program:

```
# include <stdio.h>
# include <string.h>
int main ()
{
    char str [100], RevStr[100];
    int i, j, len, c = 0;
    printf ("\n Enter a string to be reversed:");
    gets (str);
    j = 0;
    len = strlen (Str);
    for (i = len-1; i >= 0; i--)
    {
        Rev Str [j++] = str [i];
    }
    RevStr[i] = '\0';
    printf (" \n String after Reversing = %s \n", RevStr);
    for (i=0; i< len/2; i++)
    {
        if (str[i] == str[len-i-1])
        c++ ;
    }
    if (c == i)
    printf ("String is palindrome");
    else
    printf ("string is not palindrome");
    return 0;
}
```