

A n- character string is stored starting from memory location **loc1**. Write an ALP that will replace every m<sup>th</sup> character of the string with user entered character stored at **char1**. The value of m can range between 2 to 9 and is stored in location **off1**. The value of n is between 10<sub>d</sub> to 20<sub>d</sub> and is stored in location **cnt1**. **[The size n need not be a multiple of m]**

For e.g. if the contents of loc1 is as follows

**loc1: microprocessor**

**char1: \$**

after the ALP is executed loc1 should be as follows

**loc2: micr\$proc\$ssor**

The value of m and the charc should be entered by user the process is as follows. The following display should appear on screen **“Enter the value of m ”**. A single character user input should then be taken. Then the following should appear on the next line of screen. **“Enter replacement character ”**. A single character input should be taken. After the replacement has been completed, the updated string should be displayed on the next line.