**Flex program to check use of inclusive start condition**

This flex program is to check use of inclusive start condition. A start condition is activated by the use of BEGIN directive. The Inclusive start condition is declared with %s. As the start condition is inclusive, then all the rules with the corresponding start condition and rules without any start condition will be active.

We have defined two inclusive start conditions, which are SM and SMBG.Whenever we input # then the rules corresponding to SM start condition is activated along with the rules without any start condition and whenever we input ## then the rules corresponding to SMBG start condition is activated along with the rules without any start condition.Check the output below to get a clearer picture.

**Program**

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55 | %{    /\*Inclusive start condition\*/  #undef yywrap  #define yywrap() 1    %}      %s SM SMBG      %%      # BEGIN(SM);  ## BEGIN(SMBG);    [0-9]+ {  printf("Contains only digits");  }    <SMBG>[A-Z]+ {  printf("Contains uppercase letters");  }    <SM>. {  printf("Exiting from # start condition");  BEGIN(INITIAL);  }    <SM,SMBG>[a-z]+ {  printf("Contains lowercase letters");    }    <SMBG>.+ {  printf("Exiting from ## start condition");  BEGIN(INITIAL);  }    .+ {  printf("No action exexuted");    }    %%      main()  {  printf("Enter # when expecting digits or lowercase letters");  printf(" Enter ## when expecting only lowercase and uppercase letters");  yylex();  } |

<https://codedost.com/flex/flex-programs/flex-program-check-use-inclusive-start-condition/>