1. write the postfix form of the following expressions:  
   (a)A\*B\*C=AB\*C\*

(b)-A+B-C+D=0A-B+C-D+

(c)A\*-B+C=A0B-\*C+

(d)(A+B)\*D+E/(F+A\*D)+C=AB+D\*EFAD\*+/+C+

(e)A&&B||C||!(E>F)=AB&&C||EF>!||

(f)!(A&&!((B<C)||(C>D)))||(C<E)=ABC<CD<||!&&CE<||

2. Use the priorities of Figures3.15 together with those for”(”and “#”to answer the following:

(a). In function Postfix ,what is the maximum number of elements that can be on the stack

at any time if the input expression e has n operators and delimiters?

A:n operators and delimiters, the maximum of the elements of stack is n

(b). What is the answer to (a) if e has n operators and the depth of parentheses is at most 6?

A:For the priority of the operator ranking from 1-8,so for one parentheses can contain 8 operators so the most number of operators be contained is 6\*8=54;