1. Declare 2 stacks:
2. Stack containing floats: solstk
3. Stack containing characters: oprtorstk
4. Enclose infix string in ‘(‘ and ‘)’ if not already enclosed.
5. Read each character of infix string one-by-one from start to end.
6. Identify operands from operators and accordingly assign either to ‘token’ (instead of assigning individual characters, which might be digits of a number, to ‘token’).
7. If token==’(‘ :
8. Push chr in oprtorstk.
9. ////////solstk->top++ (so infix string needs to start and end with ‘(‘ and ‘)’ respectively)

Else if token==operand :

1. Push chr in solstk.

Else if token==operator :

If oprtorstk->top==-1 : Push token in oprtorstk.

Else :

1. If token == ’$’ :
2. Push token in oprtorstk.
3. Else If token == ‘/’ || ‘\*’ :
4. If peek(oprtorstk) == ‘+’ || ’-‘|| ’(‘ :
5. Push token in oprtorstk.
6. Else If peek(oprtorstk) == ‘\*’ || ‘/’ || ‘$’ :
7. While (oprtorstk->top >=0 && oprtorstk->top == ‘\*’ || ‘/’ || ‘$’ ) :

Pop oprtorstk and store in peeked\_token.

Pop solstk and store in oprnd2.

Pop solstk and store in oprnd1.

Push result of ‘oprnd1 peeked\_token oprnd2‘ into solstk.

1. Push token in oprtorstk.
2. Else If token == ‘+’ || ‘-‘ :
3. While (oprtorstk->top >=0 && peek(oprtorstk) != ‘(‘ ) :

Pop oprtorstk and store in peeked\_token.

Pop solstk and store in oprnd2.

Pop solstk and store in oprnd1.

Push result of ‘oprnd1 peeked\_token oprnd2‘ into solstk.

1. Push token in oprtorstk.

Else if chr == ’)’ :

1. While (peek(oprtorstk) != ‘(‘ )

Pop oprtorstk and store in peeked\_token.

Pop solstk and store in oprnd2.

Pop solstk and store in oprnd1.

Push result of ‘oprnd1 peeked\_token oprnd2‘ into solstk.

1. Pop oprtorstk. (to remove ‘(‘).
2. ////If solstk->top >= 1 :

/////Pop solstk and append to newly topmost element of solstk.

Else :

Print “Unknown token in entered infix expression.”

1. Value of Infix expression = solstk[0]