```
# include <stdio.L>
# include (S-Fring )
# define MAY 20
void intoprefix (chas infix[2:), chas prefix [2c]);
void reverse (clas array 1:30]);
char pop();
void bush (char symbol); int is Operator (char symbol);
 int pred (char symbol);
 int 40p = -1;
  clas stack [MAX];
 main ()
   clar infix [20], prefix[20], temp;
   printf ("Enter the intix operation: ");
   gots (infix);
    intopolix (intia, prefix);
    severse (profin);
    puts ((perfix));
  void intoprefin Celar infin [20], char prefin [20])
   int i, j = 0;
    clar symbol;
   Stack [++++0] = ++1;
   zevesse (intin);
```

```
for (i=0; ic stellar (infix); i++)
        symbol = infinc[i];
          if (isOperator (symbol) = =0)
             if (symbol == ')')

bush (symbol);
                else if (symbol == '(')
                    while (stack [top] != ')')
of prefix (j] = pop();
                      pop();
                  else
                    d if (pred (stack [tof]) <= pred (symbol))
                        d bush (symbol);
                       else
                            while (pecd (stack [tob]) >= pscd (symbol))
                               ( prefix[j] = pop();
```

```
push (symbol);
while (stack [fob]!= 1#1)
   profix [j]='\0';
 p
void sevesse (char array [30))
   int i, j;
   clas temp[100];
   for (i= Stelen (alray)-1, j=0; i+1!=0; --i,++j)
        temp[j] = array [i];
   tendp [i] = '\01';
    stecky (array, temp);
chas pop()
 a = Stack (top);
```

```
void push (char symbol)
   Stack [top] = Symbol,
 int pecd (char symbol)
& switch (symbol)
      Case 1-1.
            Seturn 2;
            break;
       (ase 1*1
       Case 1/
            Ecturn 4;
            break;
        case \$1
        Case 111:
            Seturn 6;
            break;
        (ose '#':
         case (c):
         Case 1)1:
              seturn 1;
              break;
    int is Operator (char symbol)
   ( switch (symbol)
          case 1-1:
          Case 1 *1:
          case 1/:
```

```
Case 'A':

Case 'A':

Case 'A':

Case 'C':

Case 'C':

Soturn ';

break;

defautt:

seturn 0;
```