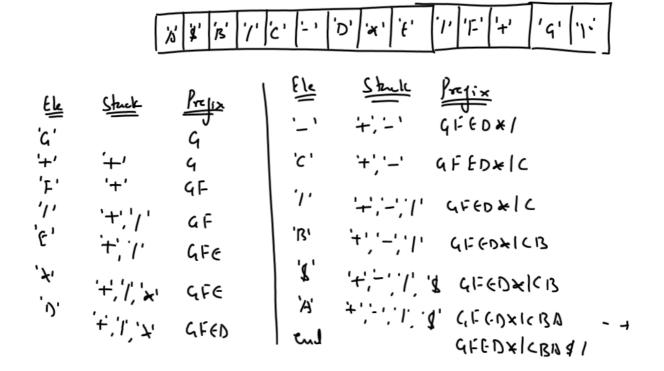
## Remaining Functions Of Converting Infix To Postfix

```
int isoperand(char ch)
void push(struct Stack *p,char x)
{
                                                 if((ch>='A' && ch<='Z')||(ch>='a' && ch<='z')||(ch>='
  if(p->tos==MAX-1)
                                                    return 1;
                                                 return 0;
     printf("Stack Overflow");
                                              int isempty(struct Stack S)
     return;
                                                 return (S.tos==-1);
  p->tos++;
  p->arr[p->tos]=x;
                                              int prcd(char op1,char op2)
}
                                                 if(op2=='$')
char pop(struct Stack *p)
                                                    return 0;
{
                                                 else if(op1=='$')
  char x;
                                                    return 1;
  if(p->tos==-1)
                                                 else if(op2=='/'||op2=='*'||op2=='%')
                                                    return 0;
                                                 else if(op1=='/'||op1=='*'||op1=='%')
     printf("Stack Underflow");
                                                    return 1;
     return 0;
                                                 else if(op2=='+'||op2=='-')
                                                    return 0;
  x=p->arr[p->tos];
                                                 else
                                                    return 1;
  p->tos--;
  return x;
}
```

+-/\$ABC/\*DEFG

## **Converting Infix To Prefix**



## Algorithm For Converting Infix To Prefix

- 1. Scan the given INFIX expression from RIGHT to LEFT one character at a time.
- 2. Check whether it is an OPERAND or OPERATOR.
- 3. If it is an OPERAND then copy it in the PREFIX array and goto step 5
- 4. If it is an operator then:
  - a. Check whether the Stack is empty or not.
  - b. If it is empty then PUSH the operator in the STACK and goto step 5. c.lf it is not empty then :
    - i. Check the precedence of OUTSIDE operator with STACKTOP
- ii. If the precedence of OUTSIDE operator is higher or equal then PUSH it in the STACK and goto step 5
- iii.If the precedence of STACKTOP is higher then POP it, copy it in the PREFIX array and goto step 4(a)
- 5. Repeat the above process until the INFIX expression ends.
- 6. POP the remaining operators from the STACK and copy them in PREFIX array
- 7. Reverse the PREFIX array
- 8. Finish and return