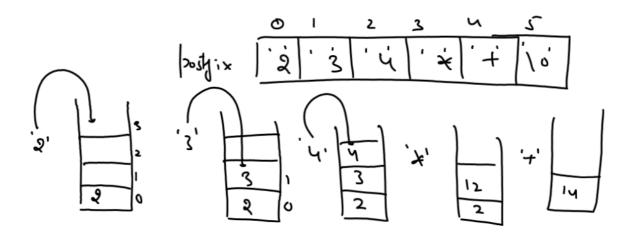
Algorrtihm For Evaluating a Postfix Expression



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Algorrtihm For Evaluating a Postfix Expression

- 1. Scan the given postfix expression from left to right, one character at a time.
- 2. Check wherther it is an operator or operand.
- 3. If it is an operand, then PUSH it in the Stack and goto Step 5
- 4. If it is an operator then:
 - a. POP the top 2 operands from the Stack
 - b. Apply the operator on them
 - c. PUSH the result back in the Stack
- 5. Repeat steps from 1 to 4 until POSTFIX expression ends.
- 6. Finally, POP the remaining last element from the Stack and return it as the answer of the expression
- 7.Finish

Implementing Evaluation Of Postfix Expression

```
struct Stack
                                               float evaluate(char postfix[20])
                                               {
  float arr[10];
                                                 struct Stack S;
  int tos;
                                                 int i;
};
                                                 char ch;
void push(struct Stack *,float);
float pop(struct Stack *);
                                                 float op1,op2,result;
int isoperand(char);
                                                S.tos=-1;
float calculate(float,float,char);
                                                for(i=0;postfix[i]!='\0';i++)
float evaluate(char []);
                                               {
int main()
                                                   ch=postfix[i];
{
                                                   // continue the code
char postfix[20];
float ans;
printf("Enter valid postfix expression:");
scanf("%s",postfix);
ans=evaluate(postfix);
printf("Result is %f",ans);
return 0;
}
```