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D1-Batch.

# DS LAB-3

## INFIX TO POSTFIX ALGORITHM

```
Infixtopostfix (exp)
{
  create a stack s
  for i<-0 to length(exp)-1
  {
    if exp[i] is operand
    res<-res + exp[i]
    else if exp[i] is operator
    while (!s.empty( )&& HasHigher pre(s.top(). exp[i])
    {
       res <- res+ s.top()
        s.pop()
    }
    s. push (exp[i])
    elsif isopening parenthesess(exp[i])
          s.push(exp[i])
    elsif Is closing parenthuses (exp[i])
       {
         while (!s.empty() && !isopening parenthesess
                                (s.top()))
       res <-res + s.top()
         s.pop()
       }
       s.pop()
    }
  }
  while(!s.empty())
  { res<- res+s.top()
        s.pop()
  }
  return res  }
```