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ALOGARITMA DAN PEMROGRAMAN / A12.6302

TUGAS STACK KONVERSI INFIX TO POSTFIX

A=5, B=4, C=2, D=1.

1. (A+B)/(C-D) == AB+CD-/(5+4)/(2-1)

```
//header program.....
#include <stdio.h>
#include <comio.h>
#include <iostream.h>
#include <string.h>
                                           C:\BC5\LIB\INFIX YERE.exe
                                           Program Konvesi Infix ke Postfix
#define SIZE 100
                                           Masukkan notasi Infix : (A+B)/(C-D)
Postfix yang terbentuk : AB+CD-/
char stack[SIZE];
int top = -1;
//define push operation.....
void push (char item)
1f(top >= SIZE-1)
{
 cout << "\nStack Penuh ! ";
else
{
 top = top+1;
 stack[top] = item;
//define pop operation.....
char pop()
char item :
1f(top <0) {
 cout << "Stack Kosong ! ";
 getchar();
 exit(1);
else {
 item = stack[top];
 top = top-1;
return (item) :
```

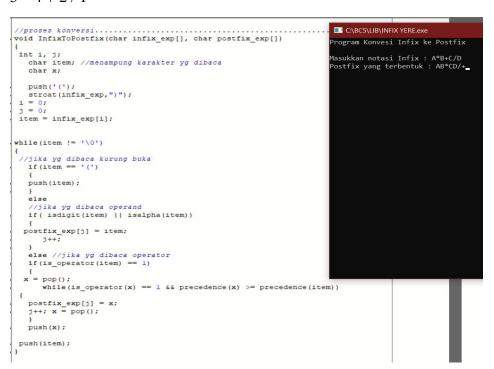
2. A + B / C-D == ABC/+D-

5 + 4 / 2 - 1

```
//operator yang diijinkan.....
                                                                   C:\BC5\LIB\INFIX YERE.exe
int is_operator(char symbol)
                                                                   Program Konvesi Infix ke Postfix
'f (symbol == '^' || symbol == '*' || symbol == '/' ||
symbol == '+' || symbol =='-')
                                                                   Masukkan notasi Infix : A+B/C-D
                                                                   Postfix yang terbentuk : ABC/+D-
 return 1;
else
 return 0;
}
//mengecek derajat operator.....
int precedence(char symbol)
if (symbol == '^')
 return(3);
else if(symbol == '*' || symbol == '/')
else if (symbol == '+' || symbol == '-')
 return(1);
 return(0);
```

3. A * B + C / D == AB * CD /+

5*4+2/1



4. A * (B + C) / D == ABC +*D

```
5*(4+2)/1
```

```
//jika yg dibaca kurung tutup
1f (item == ')')
                                                               C:\BC5\LIB\INFIX YERE.exe
 x = pop();
  while (x != '(')
                                                               Program Konvesi Infix ke Postfix
  postfix_exp[j] = x;
j++;
                                                               Masukkan notasi Infix : A*(B+C)/D
Postfix yang terbentuk : ABC+*D/
      x = pop();
} else
.
//jika terdapat spasi
1f(item == ' ')
//spasi diabaikan
else{
cout << "\nEkspresi infix tidak valid ! \n";</pre>
getchar();
exit(1);}
i++;
item = infix_exp[i]; //ambil karakter berikutnya
} //akhir while
1f (top>0)
 cout << "\nEkspresi infix tidak valid ! \n";</pre>
   getchar();
   exit(1);}
postfix_exp[j] = '\0';}
//program utama....vold main()
char infix[SIZE], postfix[SIZE];
cout << "Program Konvesi Infix ke Postfix\n";
cout << "\nMasukkan notasi Infix : ";</pre>
 gets(infix);
 //konversikan infix ke postfix.....
 InfixToPostfix(infix, postfix);
 cout << "Postfix yang terbentuk : ";</pre>
 cout << postfix;
getch();
```