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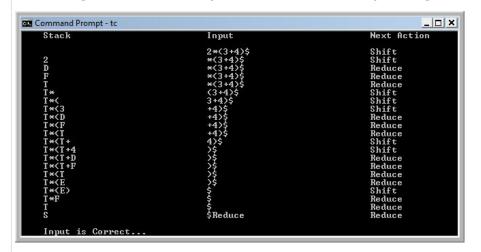
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Program to show the implementation of Bottom-Up Parsing

A C++ Program to show the implementation of Bottom-Up Parsing.



Download Sourcecode for Program to show the implementation of Bottom-Up Parsing (Size: 1.33 KB)

Code for Program to show the implementation of Bottom-Up Parsing in C++ Programming

```
# include <iostream.h>
  include <string.h>
# include
             <conio.h>
staticchar Stack[50][10]={NULL};
staticint top=-1;
staticint cit=0;
// Input Grammarstaticint productions[6]={5,1,7,7,2,10};
constchar Grammar[5][11][10]={
               "S","E"),
{"E","E+T","E-T","E*T","E/T","E%T","E^T","T"},
               {"T", "T+F", "T-F", "T*F", "T/F", "T%F", "T^F", "F"}, {"F", "(E)", "D"},
               {"D", "0", "1", "2", "3", "4", "5", "6", "7", "8", "9"}
// Input Statementconstint input_length=8;
char Input[input_length][5]={"2","*","(","3","+","4",")","$"};
   top++;
   strcpy(Stack[top],Token);
   strset(Stack[top],NULL);
   top--;
```

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```
for(int i=0;i<items;i++)</pre>
    Pop();
  Push(Grammar[index][0]);
  Push(Input[cit]);
      int items;
  int index;
  char TopItems[100] = {NULL};
  for(int i=0;i<=top;i++)</pre>
    strset(TopItems, NULL);
    for(int j=i;j<=top;j++)</pre>
   strcat(TopItems,Stack[j]);
    for(j=0;jjproductions[0];j++)
    for (int k=1; k \le productions[(j+1)]; k++)
      if(strcmp(TopItems,Grammar[j][k])==0)
     items=(top-i+1);
     index=j;
     goto NextCheck;
  return 0;
  NextCheck:
  char CitInput[20]={NULL};
  strcpy(CitInput,Stack[top]);
  strcat(CitInput,Input[cit]);
  for(i=0;iproductions[0];i++)
    for(int j=1;j<=productions[(i+1)];j++)</pre>
   if (strstr(Grammar[i][j],CitInput)!=NULL)
      return 0;
  Reduce(items, index);
  return 1:
clrscr();
  int flag=0;
  cout<<"
          /////****+++++----- Bottom-Up Parsing ....---++++***
  gotoxy(5,3);
  cout<<"Stack";
  gotoxy(35,3);
  cout<<"Input";
  gotoxy(65,3);
  cout<<"Next Action";</pre>
  gotoxy(5,5);
  for(int i=0;i<=top;i++)</pre>
    cout<<Stack[i];
  gotoxy(35,5);
  for(int j=cit;j<input_length;j++)</pre>
    cout<<Input[j];</pre>
  gotoxy(65,5);
```

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```
cout<<"Shift";
      if(!CheckReduceCondition())
     Shift();
     gotoxy(65,(wherey()+1));
     cout<<"Shift";
      else
      gotoxy(65, (wherey()+1));
      gotoxy(5, wherey());
      for(int i=0;i<=top;i++)</pre>
     cout<<Stack[i];
      gotoxy(35,wherey());
      for(int j=cit;j<input_length;j++)</pre>
     cout<<Input[j];
      if(top==0 && strcmp(Stack[top],Grammar[0][0])==0 &&
                           strcmp(Input[cit],"$")==0)
     flag=1;
      }
      elseif(strcmp(Stack[top],"$")==0)
     flag=0;
     break;
      }
   while(1);
   if(flag)
      cout<<"\n\n
                     Input is Correct...";
      \verb"cout"<"\n\n
                      Input is Incorrect...";
   getch();
   return 0;
[/Code]
```

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