Graphical user interface, text, application, email

Description automatically generated

Logic behind this.

Text

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Faster to evaluate a postfix notation.

Text

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We will only use stack to contain value not the operand.

Text

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Text

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Code

Graphical user interface, text

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Graphical user interface, text, application

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Helper function.

Graphical user interface, text, application

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Same helper function.

Main logic below.

Text

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int evaluatePostfix(string S)

{

stack<int> s;

for(int i=0;i<S.length();i++)

{

int a=S[i]-'0';

if(a>=0 && a<=9)

{

s.push(a);

}

else

{

int b=s.pop();

int c=s.pop();

switch(S[i])

{

case '+':

s.push(b+c);

break;

case '-':

s.push(b-c);

break;

case '\*':

s.push(b\*c);

break;

default:

s.push(b/c);

}

}

}

return s.pop();

}