```
checkBraces(aString: string): boolean
aStack = a new empty stack
for (int index = 0; index < aString.length(); index++)</pre>
      ch = character at position index in aString
      if (ch is '(' or '[' or '{')
      {
            aStack.push(ch)
            continue
      }
      switch (ch)
      {
            case ')':
                  if (aStack.peek() == '{' | x == '[')
                      return false;
                  aStack.pop()
                  break;
             case '}':
                  if (aStack.peek() == '(' || x == '[')
                      return false;
                  aStack.pop()
                  break;
             case ']':
                  if (aStack.peek() == '(' || x == '{')
                      return false;
                  aStack.pop()
                  break;
      }
}
// Check Empty Stack
return (s.empty());
```

```
a. [(a+b) - \{c+d\} + (x+y)]
```

		aStack
Step1	push('[')	[
Step2	push('(')	[(
Step3	pop()	[
Step4	push('{')	[{
Step5	pop()	[
Step6	push('(')	[(
Step7	pop()	[
Step8	pop()	

b. $((a) * \{([b+c])\})$

((L	<i>'</i>	
		aStack
Step1	push('(')	(
Step2	push('(')	((
Step3	pop()	(
Step4	push('{')	({
Step5	push('(')	({(
Step6	push('[')])})
Step7	pop()	({(
Step8	pop()	({
Step9	pop()	(
Step10	pop()	

a. a + b - c

Char	Stack	PostfixExp	Others
а		a	
+	+	a	
b	+	ab	
-	-	ab+	
С	-	ab+c	
		ab+c-	Copy operators from stack to postfixExp

b. (a + b) * (c - d)

Char	Stack	PostfixExp	Others
((
а	(a	
+	(+	a	
b	(+	ab	
)	(ab+ ab+	Move operators from stack to postfixExp until "("
*	*	ab+	
(*(ab+	
С	*(ab+c	
-	*(-	ab+c	
d	*(-	ab+cd	
)	*(*	ab+cd- ab+cd- ab+cd-*	Move operators from stack to postfixExp until "(" Copy operators from stack to postfixExp

c. (a * (b * c)) - d + e / f

Char	Stack	PostfixExp	Others
((
a	(a	
*	(*	a	
((*(a	

Char	Stack	PostfixExp	Others
b	(*(ab	
*	(*(*	ab	
С	(*(*	abc	
)	(*((*	abc* abc*	Move operators from stack to postfixExp until "("
)	(abc** abc**	Move operators from stack to postfixExp until "("
-	-	abc**	
d	-	abc**d	
+	-+	abc**d	
е	-+	abc**de	
/	-+/	abc**de	
f	-+/	abc**def abc**def/+-	Copy operators from stack to postfixExp

d. a / (b - c) + (d + e) * f

Char	Stack	PostfixExp	Others
а		a	
/	/	a	
(/(a	
b	/(ab	
-	/(-	ab	
С	/(-	abc	
)	/(abc- abc-	Move operators from stack to postfixExp until "("
+	/+	abc-	
(/+(abc-	
d	/+(abc-d	
+	/+(+	abc-d	
е	/+(+	abc-de	
)	/+(/+	abc-de+ abc-de+	Move operators from stack to postfixExp until "("

Char	Stack	PostfixExp	Others
*	/+*	abc-de+	
f	/+*	abc-de+f abc-de+f*+/	Copy operators from stack to postfixExp
e. ((a + b	o) * c - (d	- e)) * (f + g)	
Char	Stack	PostfixExp	Others
((
(((
a	((а	
+	((+	а	
b	((+	ab	
)	((ab+ ab+	Move operators from stack to postfixExp until "("
*	(*	ab+	
С	(*	ab+c	
-	(-	ab+c*	
((-(ab+c*	
d	(-(ab+c*d	
-	(-(-	ab+c*d	
е	(-(-	ab+c*de	
)	(-((-	ab+c*de- ab+c*de-	Move operators from stack to postfixExp until "("
)	(ab+c*de ab+c*de	Move operators from stack to postfixExp until "("
*	*	ab+c*de	
(*(ab+c*de	
f	*(ab+c*def	
+	*(+	ab+c*def	
g	*(+	ab+c*defg	
)	*(*	ab+c*defg+ ab+c*defg+ ab+c*defg+*	Move operators from stack to postfixExp until "(" Copy operators from stack to postfixExp

f. a + (b * c / d) - e

Char	Stack	PostfixExp	Others
а		a	
+	+	a	
(+(a	
b	+(ab	
*	+(*	ab	
С	+(*	abc	
/	+(*/	abc	
d	+(*/	abcd	
)	+(* +(+	abcd/ abcd/* abcd/*	Move operators from stack to postfixExp until "("
-	+-	abcd/*	
е	+-	abcd/*e abcd/*e+-	Copy operators from stack to postfixExp