Programming Assignment 2 (Expression Evaluation)

Test Cases

buildSymbols (15 pts)

	Input Expression	Points
1	**3**	1
2	**a**	1
3	**a[3]**	1
4	**a[b[3]]**	1
5	**A[A[3]]**	1
6	**a+a**	2
7	**a+A**	2
8	**(a-(b+c)*d)/2**	2
9	**b*c/a+z*a**	2
10	**ab*3/abc**	2

evaluate (50 pts)

```
a 2
b 3
c 4
d 8
A 5 (1,1) (2,2) (3,3) (4,4)
B 6 (1,1) (3,3) (4,4) (5,5)
CARR 2 (0,1) (1,2)
```

	Input Expression	Value	Points
1	**3**	3	2
2	**3+4**	7	2
3	**3-4-5**	-6	2
4	**3+4*5**	23	2
5	**b**	3	2
6	**a/c**	0.5	2
7	**a-b+c**	3	2
8	**a-b*d/a+c-4**	-10	3
9	**(a)**	2	2
10	**a-(b-c)**	3	3
11	**a-((b-c))**	3	3

12	a-(b-c)*(2-d)+c	0	3
13	A[1]	1	2
14	A[b-2]	1	3
15	A[(d-c)]	4	3
16	A[3]+B[4]	7	3
17	A[B[0]]	0	3
18	d*(c-B[a+CARR[0]-A[1]+b])	−8	4
19	A[B[CARR[1]*2]]/2	2	4