## 2. 解:

序号	读剩的表达式	栈	输出
1	(a+b)*(c-d*e)^f-(g/h+i)		
2	a+b)*(c-d*e)^f-(g/h+i)	(	
3	+b)*(c-d*e)^f-(g/h+i)	(	а
4	b)*(c-d*e)^f-(g/h+i)	(+	а
5	)*(c-d*e)^f-(g/h+i)	(+	ab
6	*(c-d*e)^f-(g/h+i)		ab+
7	(c-d*e)^f-(g/h+i)	*	ab+
8	c-d*e)^f-(g/h+i)	*(	ab+
9	-d*e)^f-(g/h+i)	*(	ab+c
10	d*e)^f-(g/h+i)	*(-	ab+c
11	*e)^f-(g/h+i)	*(-	ab+cd
12	e)^f-(g/h+i)	*(-*	ab+cd
13	)^f-(g/h+i)	*(-*	ab+cde
14	^f-(g/h+i)	*	ab+cde*-
15	f-(g/h+i)	*^	ab+cde*-
16	-(g/h+i)	*^	ab+cde*-f
17	(g/h+i)	-	ab+cde*-f^*
18	g/h+i)	-(	ab+cde*-f^*
19	/h+i)	-(	ab+cde*-f^*g
20	h+i)	-(/	ab+cde*-f^*g
21	+i)	-(/	ab+cde*-f^*gh
22	i)	-(/+	ab+cde*-f^*gh
23	)	-(/+	ab+cde*-f^*ghi
24		-	ab+cde*-f^*ghi+/
25			ab+cde*-f^*ghi+/-

<sup>4.</sup> 答: 元素依次进栈退栈后栈内元素的个数为 0,1,2,1,2,3,2,1,2,1,0,1,0, 故栈的最大容量至少 为 3。