

```
1  -- UNIT TEST -----S
2
3  -- Q2
4
5  -- 1)
6  -- i)
7  unitFoldl :: Bool
8  unitFoldl =
9      stackFoldl (+) 0 Empty == 0
10
11 -- ii)
12 unitFoldl' :: Bool
13 unitFoldl' =
14     stackFoldl (+) 2 (Stack (Stack (Empty :: Stack Int) 3) 4) == 9
15
16 -- 2)
17 -- i)
18 unitFoldr :: Bool
19 unitFoldr =
20     stackFoldr (+) 5 Empty == 5
21
22 -- ii)
23 unitFoldr' :: Bool
24 unitFoldr' =
25     stackFoldr (+) 4 (Stack (Stack (Empty :: Stack Int) 5) 6) == 15
26
27 -- 3)
28 -- i)
29 unitZip :: Bool
30 unitZip =
31     stackZip (Empty :: Stack Int) (Empty :: Stack Int)
32     ==
33     (Empty :: Stack (Int,Int))
34
35 -- ii)
36 unitZip' :: Bool
37 unitZip' =
38     stackZip (Stack (Stack (Empty :: Stack Char) 'a') 'b') (Stack (Stack (Empty...
39     ==
40     Stack (Stack (Empty :: Stack (Char,Int)) ('a',5)) ('b',6))
41
42 -- 4)
43 -- i)
44 unitMap :: Bool
45 unitMap =
46     stackMap (5 +) Empty == Empty
47
48 -- ii)
49 unitMap' :: Bool
50 unitMap' =
51     stackMap (5 +) (Stack (Stack (Empty :: Stack Int) 3) 4)
52     ==
53     Stack (Stack (Empty :: Stack Int) 8) 9
54
55 -- UNIT TEST -----E
```