

# Problem Set 4

R7.5) a.  $\text{int}[] a = \{1, 1, 2, 3, 4, 5, 4, 3, 2, 1\}$

b.  $\text{int}[] a = \{1, 1, 2, 3, 4, 5, 4, 3, 2, 1\}$

c.  $\text{int}[] a = \{2, 3, 4, 5, 4, 3, 2, 1, 0, 0\}$

d.  $\text{int}[] a = \{2, 3, 4, 5, 4, 3, 2, 1, 0, 0\}$

e.  $\text{int}[] a = \{3, 5, 7, 9, 9, 7, 5, 3, 1\}$

$$a[1] = a[1] + a[0] = 3$$

f.  $\text{int}[] a = \{1, 0, 3, 0, 5, 0, 3, 0, 1, 0\}$

$$a[2] = a[2] + a[1] = 5$$

g.  $\text{int}[] a = \{1, 2, 3, 4, 5, 1, 2, 3, 4, 5\}$

$$a[3] = a[3] + a[2] = 7$$

R7.11) a.  $\text{for}(\text{float } \text{element} : \text{values}) \{ \text{total} = \text{total} + \text{element}; \}$

b.  $\text{int } \text{count} = 0;$

$\text{for}(\text{float } \text{element} : \text{values})$

{

$\text{if}(\text{count} != 0) \{ \text{total} = \text{total} + \text{element}; \}$

$\text{count}++;$

}

c.  $\text{int } \text{counter} = 0;$

$\text{for}(\text{float } \text{element} : \text{values})$

{  $\text{if}(\text{element} = \text{target}) \{ \text{return } \text{counter}; \}$

$\text{counter}++;$

}

R7.28) `int[][] a = new int[3][3];  
for (int i = 0; i < a.length; i++)  
{  
 a[i][0] = -1;  
 a[i][2] = -1;  
 a[0][i] = -1;  
 a[2][i] = -1;  
 a[0][1] = -1;  
 a[2][1] = -1;  
}`

R7.30) a. true  
b. false  
c. false  
d. false  
e. false  
f. true  
g. true

R7.32) a. true  
b. true  
c. false  
d. true  
e. false  
f. false