

2(a)

The screenshot shows a debugger window with a table of numerical data on the left and a C++ code snippet on the right. The table has 4 columns and 10 rows of data. The code snippet shows a loop structure with a return statement.

1. 0000	0. 5000	0. 5000	0. 0000
1. 5000	0. 5000	0. 4615	0. 0833
2. 0000	0. 4306	0. 4000	0. 0764
2. 5000	0. 3610	0. 3448	0. 0470
3. 0000	0. 3063	0. 3000	0. 0210
3. 5000	0. 2646	0. 2642	0. 0017
4. 0000	0. 2324	0. 2353	0. 0121
4. 5000	0. 2071	0. 2118	0. 0219
5. 0000	0. 1867	0. 1923	0. 0290
5. 5000	0. 1700	0. 1760	0. 0341
6. 0000	0. 1560	0. 1622	0. 0379
6. 5000	0. 1442	0. 1503	0. 0406
7. 0000	0. 1340	0. 1400	0. 0426
7. 5000	0. 1252	0. 1310	0. 0440
8. 0000	0. 1175	0. 1231	0. 0450
8. 5000	0. 1107	0. 1160	0. 0457
9. 0000	0. 1047	0. 1098	0. 0462
9. 5000	0. 0993	0. 1041	0. 0464
10. 0000	0. 0944	0. 0990	0. 0465

```
42  for (int i = 0; i < 10; i++)  
43  {  
44      inv = 1.0 / (1.0 + i * 0.5);  
45      flo = inv * 0.5;  
46      flo = flo * 0.5;  
47      inv = 1.0 / (1.0 + i * 0.5);  
48      std::cout << i << " " << inv << " " << flo << " " << inv << " " << flo << " " << std::endl;  
49  }  
50  
51  return 0;  
52  }  
53  #endif
```

(B)

The screenshot shows a debugger window with a table of numerical data on the left and a C++ code snippet on the right. The table has 4 columns and 10 rows of data. The code snippet shows a loop structure with a return statement.

1. 0000	0. 5000	0. 5000	0. 0000
1. 5000	0. 4550	0. 4615	0. 0142
2. 0000	0. 3938	0. 4000	0. 0155
2. 5000	0. 3404	0. 3448	0. 0127
3. 0000	0. 2971	0. 3000	0. 0097
3. 5000	0. 2622	0. 2642	0. 0072
4. 0000	0. 2340	0. 2353	0. 0054
4. 5000	0. 2109	0. 2118	0. 0040
5. 0000	0. 1917	0. 1923	0. 0030
5. 5000	0. 1756	0. 1760	0. 0022
6. 0000	0. 1619	0. 1622	0. 0016
6. 5000	0. 1501	0. 1503	0. 0011
7. 0000	0. 1399	0. 1400	0. 0008
7. 5000	0. 1309	0. 1310	0. 0005
8. 0000	0. 1230	0. 1231	0. 0003
8. 5000	0. 1160	0. 1160	0. 0001
9. 0000	0. 1098	0. 1098	0. 0000
9. 5000	0. 1041	0. 1041	0. 0002
10. 0000	0. 0990	0. 0990	0. 0002

```
57  }  
58  
59  return 0;  
60  }  
61  #endif
```

3(A)

```
0. 00000. 7854 0. 2929
0. 1000 0. 7854 0. 2954
0. 2000 0. 7783 0. 2979
0. 3000 0. 7642 0. 3004
0. 4000 0. 7430 0. 3030
0. 5000 0. 7149 0. 3056
0. 6000 0. 6801 0. 3082
0. 7000 0. 6387 0. 3108
0. 8000 0. 5910 0. 3135
0. 9000 0. 5373 0. 3163
1. 0000 0. 4781 0. 3191
1. 1000 0. 4138 0. 3221
1. 2000 0. 3448 0. 3251
1. 3000 0. 2719 0. 3282
1. 4000 0. 1955 0. 3313
1. 5000 0. 1165 0. 3346
1. 6000 0. 0355 0. 3379
1. 7000 -0. 0466 0. 3413
1. 8000 -0. 1291 0. 3447
1. 9000 -0. 2111 0. 3481
```

(B)

```
57
58
59 return
60
61 #endif
```

4(B)

