**AP CS Code Magnets**

*Adapted from Head First Java by Sierra and Bates*

A working java program is all scrambled up on the fridge. Can you construct the code snippets to make a working program that produces the following output:

% java TestArrays

island = Fiji

island = Cozumel

island = Bermuda

island = Azores

Give the students the following code on slips of paper after information about arrays is presented. Ask students (groups of 2) to rearrange the code to produce the output above.

|  |  |
| --- | --- |
| int y = 0; | ref = index [y]; |
| islands[0]=”Bermuda”;  islands[1]=” Fiji”;  islands[2]=”Azores”;  islands[3]= “Cozumel”; | int ref;  While (y<4){ |
| System.out.println(islands[ref]); | index[0]=1;  index[1]=3;  index[2]=0;  index[3]=2; |
| String[ ] islands = new String [4]; | System.out.print(“island = “); |
| int [ ] index = new int [4]; | y=y+1; |
| class TestArrays {  public static void main (String [ ] args ) { |  |

Solution:

class TestArrays {

public static void main (String [ ] args ) {

int [ ] index = new int [4];

index[0]=1;

index[1]=3;

index[2]=0;

index[3]=2;

String[ ] islands = new String [4];

islands[0]=”Bermuda”;

islands[1]=” Fiji”;

islands[2]=”Azores”;

islands[3]= “Cozumel”;

int y = 0;

int ref;

while (y<4){

ref = index [y];

System.out.print(“island = “);

System.out.println(islands[ref]);

y = y+1;

}

}

}