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| **APCS Exposure Java** | **Output Exercises 13** | **Date:** |
| **Name:** | | **Period:** |

**Determine the program output and print the result in the right column.**

**Exercise01**

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| **// Output1301.java**  **public class Output1301**  **{**  **public static void main(String args[])**  **{**  **for (int x = 1; x < 3; x++)**  **for (int y = 1; y <= 3; y++)**  **System.out.println(x + " " + y);**  **}**  **}** |  |

**Exercise02**

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| **// Output1302.java**  **public class Output1302**  **{**  **public static void main(String args[])**  **{**  **for (int x = 0; x < 3; x++)**  **{**  **for (int y = 1; y < 4; y++)**  **System.out.print(x \* y + " ");**  **System.out.println();**  **}**  **}**  **}** |  |

**Exercise03**

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| **// Output1303.java**  **public class Output1303**  **{**  **public static void main(String args[])**  **{**  **int x = 5;**  **int k = 0;**  **int y = 0;**  **while (x < 7)**  **{**  **y = 1;**  **while (y < 9)**  **{**  **y++;**  **k = x + y;**  **}**  **x += y;**  **}**  **System.out.println("k = " + k);**  **}**  **}** |  |

**Exercise04**

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| **// Output1304.java**  **public class Output1304**  **{**  **public static void main(String args[])**  **{**  **int a = 2, b = 3, c = 4, d = 5;**  **while (a < b || c < d)**  **{**  **a = c + d;**  **c = a + b;**  **}**  **System.out.println(a + " " + b + " " + c + " " + d);**  **}**  **}** |  |

**Exercise05**

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| **// Output1305.java**  **public class Output1305**  **{**  **public static void main(String args[])**  **{**  **int a = 0;**  **int b = 2;**  **for (int k = 0; k < 4; k++)**  **{**  **a = k;**  **b += k;**  **while (a < b)**  **{**  **System.out.println(a + " " + b);**  **a += b;**  **b += k;**  **}**  **}**  **}**  **}** |  |

**Exercise06**

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| **// Output1306.java**  **public class Output1306**  **{**  **public static void main(String args[])**  **{**  **int a = 0;**  **int b = 20;**  **while (a < b)**  **{**  **a += 2;**  **b -= 3;**  **System.out.println(a + " " + b);**  **}**  **}**  **}** |  |

**Exercise07**

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| **// Output1307.java**  **public class Output1307**  **{**  **public static void main(String args[])**  **{**  **int t = 0;**  **for (int p = 0; p <= 4; p++)**  **for (int q = 0; q < 4; q++)**  **t++;**  **System.out.println("t = " + t);**  **}**  **}** |  |

**Exercise08**

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| **// Output1308.java**  **public class Output1308**  **{**  **public static void main(String args[])**  **{**  **int t = 0;**  **for (int p = 0; p < 10; p++)**  **for (int q = p; q < 10; q++)**  **t++;**  **System.out.println("t = " + t);**  **}**  **}** |  |

**Exercise09**

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| **// Output1309.java**  **public class Output1309**  **{**  **public static void main(String args[])**  **{**  **int n1 = 0;**  **int n2 = 1;**  **int n3 = 0;**  **for (int k = 3; k < 10; k++)**  **{**  **n3 = n1 + n2;**  **n1 = n2;**  **n2 = n3;**  **}**  **System.out.println("n3 = " + n3);**  **}**  **}** |  |

**Exercise10**

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| --- | --- |
| **// Output1310.java**  **public class Output1310**  **{**  **public static void main(String args[])**  **{**  **int a = 5;**  **int b = 10;**  **int c = 25;**  **while (a < b || b < c)**  **{**  **a += 3;**  **b += 2;**  **c -= 3;**  **}**  **System.out.println(a + " " + b + " " + c);**  **}**  **}** |  |

**Exercise11**

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| --- | --- |
| **// Output1311.java**  **public class Output1311**  **{**  **public static void main(String args[])**  **{**  **int a = *some unknown integer*;**  **int b = *some unknown integer*;**  **int c = 0;**  **if (a < b)**  **if (b < a)**  **c = 2000;**  **else**  **c = 3500;**  **else**  **if (b > a)**  **c = 2500;**  **else**  **c = 3500;**  **System.out.println("c = " + c);**  **}**  **}** |  |

**Exercise12**

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| --- | --- |
| **// Output1312.java**  **public class Output1312**  **{**  **public static void main(String args[])**  **{**  **for (int x = 1; x <= 5; x++)**  **{**  **for (int y = x; y <= 5; y++)**  **System.out.print(x + y + " ");**  **System.out.println();**  **}**  **}**  **}** |  |