|  |  |
| --- | --- |
| **1** | **public class Q4** |
| **2** | **{** |
| **3** | **public static void main(String args[])** |
| **4** | **{** |
| **5** | **String test = "";** |
| **6** | **int i = 0, j = 0, k = 15;** |
| **7** | **while (i < 5){** |
| **8** | **test = "-->";** |
| **9** | **j = --k;** |
| **10** | **while (j > 10 ){** |
| **11** | **test = i + j + test + i + j;** |
| **12** | **System.out.println(test);** |
| **13** | **j--;** |
| **14** | **}** |
| **15** | **i++;** |
| **16** | **}** |
| **17** | **}** |
| **18** | **}** |

Line 5: String test = "";

Line 6: int i = 0, j = 0, k = 15;

Line 7: while (i < 5){

Line 7: while (0 < 5){

Line 7: while (true){

Line 7: condition true, going inside 1st while loop ...

Line 8: test = "-->";

Line 9: j = --k;

Line 9: k=k-1; j = k;

Line 9: k=15-1; j = k;

Line 9: k=14; j = k;

Line 9: k=14; j = 14;

Line 10: while (j > 10){

Line 10: while (14 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 0 + 14 + "-->" + 0 + 14;

Line 11: test = 14 + "-->" + 0 + 14;

Line 11: test = "14-->" + 0 + 14;

Line 11: test = "14-->0" + 14;

Line 11: test = "14-->014";

Line 12: System.out.println(test);

Line 12: System.out.println("14-->014");

OUTPUT is =14-->014

Line 13: j--;

Line 13: j=j-1;

Line 13: j=14-1;

Line 13: j=13;

Line 10: while (j > 10){

Line 10: while (13 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 0 + 13 + "14-->014" + 0 + 13;

Line 11: test = 13 + "14-->014" + 0 + 13;

Line 11: test = "1314-->014" + 0 + 13;

Line 11: test = "1314-->0140" + 13;

Line 11: test = "1314-->014013";

Line 12: System.out.println(test);

Line 12: System.out.println("1314-->014013");

OUTPUT is =1314-->014013

Line 13: j--;

Line 13: j=j-1;

Line 13: j=13-1;

Line 13: j=12;

Line 10: while (j > 10){

Line 10: while (12 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 0 + 12 + "1314-->014013" + 0 + 12;

Line 11: test = 12 + "1314-->014013" + 0 + 12;

Line 11: test = "121314-->014013" + 0 + 12;

Line 11: test = "121314-->0140130" + 12;

Line 11: test = "121314-->014013012";

Line 12: System.out.println(test);

Line 12: System.out.println("121314-->014013012");

OUTPUT is =121314-->014013012

Line 13: j--;

Line 13: j=j-1;

Line 13: j=12-1;

Line 13: j=11;

Line 10: while (j > 10){

Line 10: while (11 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 0 + 11 + "121314-->014013012" + 0 + 11;

Line 11: test = 11 + "121314-->014013012" + 0 + 11;

Line 11: test = "11121314-->014013012" + 0 + 11;

Line 11: test = "11121314-->0140130120" + 11;

Line 11: test = "11121314-->014013012011";

Line 12: System.out.println(test);

Line 12: System.out.println("11121314-->014013012011");

OUTPUT is =11121314-->014013012011

Line 13: j--;

Line 13: j=j-1;

Line 13: j=11-1;

Line 13: j=10;

Line 10: while (j > 10){

Line 10: while (10 >10){

Line 10: while (false){

Line 10: condition false, going outside 2nd while ...

Line 15: i++;

Line 15: i=i+1;

Line 15: i=0+1;

Line 15: i=1;

Line 7: while (i < 5){

Line 7: while (1 < 5){

Line 7: while (true){

Line 7: condition true, going inside 1st while loop ...

Line 8: test = "-->";

Line 9: j = --k;

Line 9: k=k-1; j = k;

Line 9: k=14-1; j = k;

Line 9: k=13; j = k;

Line 9: k=13; j = 13;

Line 10: while (j > 10){

Line 10: while (13 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 1 + 13 + "-->" + 1 + 13;

Line 11: test = 14 + "-->" + 1 + 13;

Line 11: test = "14-->" + 1 + 13;

Line 11: test = "14-->1" + 13;

Line 11: test = "14-->113";

Line 12: System.out.println(test);

Line 12: System.out.println("14-->113");

OUTPUT is =14-->113

Line 13: j--;

Line 13: j=j-1;

Line 13: j=13-1;

Line 13: j=12;

Line 10: while (j > 10){

Line 10: while (12 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 1 + 12 + "14-->113" + 1 + 12;

Line 11: test = 13 + "14-->113" + 1 + 12;

Line 11: test = "1314-->113" + 1 + 12;

Line 11: test = "1314-->1131" + 12;

Line 11: test = "1314-->113112";

Line 12: System.out.println(test);

Line 12: System.out.println("1314-->113112");

OUTPUT is =1314-->113112

Line 13: j--;

Line 13: j=j-1;

Line 13: j=12-1;

Line 13: j=11;

Line 10: while (j > 10){

Line 10: while (11 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 1 + 11 + "1314-->113112" + 1 + 11;

Line 11: test = 12 + "1314-->113112" + 1 + 11;

Line 11: test = "121314-->113112" + 1 + 11;

Line 11: test = "121314-->1131121" + 11;

Line 11: test = "121314-->113112111";

Line 12: System.out.println(test);

Line 12: System.out.println("121314-->113112111");

OUTPUT is =121314-->113112111

Line 13: j--;

Line 13: j=j-1;

Line 13: j=11-1;

Line 13: j=10;

Line 10: while (j > 10){

Line 10: while (10 >10){

Line 10: while (false){

Line 10: condition false, going outside 2nd while ...

Line 15: i++;

Line 15: i=i+1;

Line 15: i=1+1;

Line 15: i=2;

Line 7: while (i < 5){

Line 7: while (2 < 5){

Line 7: while (true){

Line 7: condition true, going inside 1st while loop ...

Line 8: test = "-->";

Line 9: j = --k;

Line 9: k=k-1; j = k;

Line 9: k=13-1; j = k;

Line 9: k=12; j = k;

Line 9: k=12; j = 12;

Line 10: while (j > 10){

Line 10: while (12 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 2 + 12 + "-->" + 2 + 12;

Line 11: test = 14 + "-->" + 2 + 12;

Line 11: test = "14-->" + 2 + 12;

Line 11: test = "14-->2" + 12;

Line 11: test = "14-->212";

Line 12: System.out.println(test);

Line 12: System.out.println("14-->212");

OUTPUT is =14-->212

Line 13: j--;

Line 13: j=j-1;

Line 13: j=12-1;

Line 13: j=11;

Line 10: while (j > 10){

Line 10: while (11 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 2 + 11 + "14-->212" + 2 + 11;

Line 11: test = 13 + "14-->212" + 2 + 11;

Line 11: test = "1314-->212" + 2 + 11;

Line 11: test = "1314-->2122" + 11;

Line 11: test = "1314-->212211";

Line 12: System.out.println(test);

Line 12: System.out.println("1314-->212211");

OUTPUT is =1314-->212211

Line 13: j--;

Line 13: j=j-1;

Line 13: j=11-1;

Line 13: j=10;

Line 10: while (j > 10){

Line 10: while (10 >10){

Line 10: while (false){

Line 10: condition false, going outside 2nd while ...

Line 15: i++;

Line 15: i=i+1;

Line 15: i=2+1;

Line 15: i=3;

Line 7: while (i < 5){

Line 7: while (3 < 5){

Line 7: while (true){

Line 7: condition true, going inside 1st while loop ...

Line 8: test = "-->";

Line 9: j = --k;

Line 9: k=k-1; j = k;

Line 9: k=12-1; j = k;

Line 9: k=11; j = k;

Line 9: k=11; j = 11;

Line 10: while (j > 10){

Line 10: while (11 >10){

Line 10: while (true){

Line 10: condition true, going inside 2nd while ...

Line 11: test = i + j + test + i + j;

Line 11: test = 3 + 11 + "-->" + 3 + 11;

Line 11: test = 14 + "-->" + 3 + 11;

Line 11: test = "14-->" + 3 + 11;

Line 11: test = "14-->3" + 11;

Line 11: test = "14-->311";

Line 12: System.out.println(test);

Line 12: System.out.println("14-->311");

OUTPUT is =14-->311

Line 13: j--;

Line 13: j=j-1;

Line 13: j=11-1;

Line 13: j=10;

Line 10: while (j > 10){

Line 10: while (10 >10){

Line 10: while (false){

Line 10: condition false, going outside 2nd while ...

Line 15: i++;

Line 15: i=i+1;

Line 15: i=3+1;

Line 15: i=4;

Line 7: while (i < 5){

Line 7: while (4 < 5){

Line 7: while (true){

Line 7: condition true, going inside 1st while loop ...

Line 8: test = "-->";

Line 9: j = --k;

Line 9: k=k-1; j = k;

Line 9: k=11-1; j = k;

Line 9: k=10; j = k;

Line 9: k=10; j = 10;

Line 10: while (j > 10){

Line 10: while (10 >10){

Line 10: while (false){

Line 10: condition false, going outside 2nd while ...

Line 15: i++;

Line 15: i=i+1;

Line 15: i=4+1;

Line 15: i=5;

Line 7: while (i < 5){

Line 7: while (5 < 5){

Line 7: while (false){

Line 7: condition false, going outside 1st while loop ...