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Thread: [Mirrored Number Bowtie ASCII Art using loops](#)

Computronium - March 2, 2018, 8:59 pm

Hello. I am new to Java and I am trying to make ASCII art using loops.

This is the shape I am trying to do:

```
Code 1      1
12      21
123     321
1234    4321
12345   54321
123456  654321
12345   54321
1234    4321
123     321
12      21
1       1
```

This is my code I am using so far:

```
Code public class Bowtie {
    public static void main(String[] args)
    {
        for (int i = 0; i < 7; i++) { //this is the first loop. it will go 5 times and increase by 1 each time

            for (int k = 1; k <= i; k++) { //prints out numbers
                System.out.print(k);
            }

            for (int j = 0; j < i; j++) { //attempting to print spaces
                System.out.print(" ");
            }
            System.out.println();
        }

        for (int main = 1; main < 6; main++) { //this is the lower loop. it will go 5 times and increase by 1
each time
            for (int x = 5; x < main; x++)

                System.out.print(main - 1);

            System.out.println();
        }
    }
}
```

My code prints this:

Code 1

12
123
1234
12345
123456

Anybody think they can complete this? I am exhausted here. I would greatly appreciate it!

Thanks.

GenericSkid - March 3, 2018, 1:51 am

PHP Code

```
<?php
private static final int max = 6;
public static void main(String[] args) {
    for (int i = 1; i < max; i++) {
        print(i);
    }
    for (int i = max; i > 0; i--) {
        print(i);
    }
}
```

I wish I had something better to do with my time...

Version 1:

PHP Code

```
<?php
private static void print(int i){
    StringBuilder sb = new StringBuilder();
    for (int k = 1; k <= i; k++) {
        sb.append(k);
    }
    String a = sb.toString();
    String b = sb.reverse().toString();
    System.out.println(String.format("%-"+max+"s " + "%"+max+"s", a,b));
}
```

Version 2:

PHP Code

```
<?php
private static void print(int i){
    for (int k = 1; k <= i; k++) {
        System.out.print(k);
    }
    for (int k = 0; k <= max*2 - i*2; k++) {
        System.out.print(" ");
    }
    for (int k = i; k > 0; k--) {
        System.out.print(k);
    }
    System.out.println();
}
```

Version 3:

PHP Code

```
<?php
```

```
private static final String s = "123456654321";
private static void print(int i){
    System.out.print(s.substring(0,i));
    for (int k = 0; k <= max*2 - i*2; k++) {
        System.out.print(" ");
    }
    System.out.println(s.substring(s.length() - i,s.length()));
}
```

Version 4:

PHP Code

```
<?php
```

```
private static void print(int i){
    String s =
        i == 1 ? "1      1"
        : i == 2 ? "12    21"
        : i == 3 ? "123   321"
        : i == 4 ? "1234  4321"
        : i == 5 ? "12345 54321"
        : i == 6 ? "123456 654321"
        : "";
    System.out.println(s);
}
```

Version 5:

PHP Code

```
<?php
```

```
private static void print(int i){
    boolean flag = i < (i = (int) Math.abs(i));
    int j = 1 + (max - i);
    if (flag){
        while (j > 0) { System.out.print(" "); j--; }
        switch (i) {
            case 6: System.out.print("6");
            case 5: System.out.print("5");
            case 4: System.out.print("4");
            case 3: System.out.print("3");
            case 2: System.out.print("2");
            case 1: System.out.print("1");
        }
        System.out.println();
    } else {
        switch (i) {
            case 6: System.out.print("6");
            case 5: System.out.print("5");
            case 4: System.out.print("4");
            case 3: System.out.print("3");
            case 2: System.out.print("2");
            case 1: System.out.print("1");
        }
    }
}
```

```
while (j > 0) { System.out.print(" "); j--; }  
print(-i);  
}  
}
```

Version 6:

PHP Code

```
<?php
```

```
private static void print(int i) {  
    System.out.print(new Random(  
i == 1 ? 994376 :  
i == 2 ? 470256 :  
i == 3 ? 55550 :  
i == 4 ? -315108 :  
i == 5 ? -903398 :  
i == 6 ? 410690 : 0  
) .nextInt(754321));  
    int j = 1 + (max - i)*2;  
    while (j > 0) { System.out.print(" "); j--; }  
    System.out.println(new Random(  
i == 1 ? 994376 :  
i == 2 ? 352081 :  
i == 3 ? 495113 :  
i == 4 ? 542577 :  
i == 5 ? 886230 :  
i == 6 ? 841059 : 0  
) .nextInt(754321));  
}
```

Computronium - *March 3, 2018, 10:38 am*

(Mar 3, 2018 02:51 AM)GenericSkid Wrote: [\[CITE\]](#) PHP Code

```
<?php
```

```
private static final int max = 6;  
public static void main(String[] args) {  
    for (int i = 1; i < max; i++) {  
        print(i);  
    }  
    for (int i = max; i > 0; i--) {  
        print(i);  
    }  
}
```

I wish I had something better to do with my time...

Thank you so much, I will try to learn what you did here. I appreciate it a lot, I'll be back if I have more problems!