

Scene Question

grayson
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0.0

1 1~100

1~100

1.1 Runnable

1.1.1

1~100

1.1.2

```
1. /**
2.  * @author peng.wei
3.  * @version 1.0
4.  * @date 2021/9/1 20:43
5.  * @Description      1~100
6.  */
7. public class AlternatePrinting implements Runnable {
8.     int i = 1;
9.
10.    public static void main(String[] args) {
11.        AlternatePrinting2 alternatePrinting = new AlternatePrinting2();
12.        //
13.        Thread t1 = new Thread(alternatePrinting, "odd");
14.        //
15.        Thread t2 = new Thread(alternatePrinting, "even");
16.
17.        t1.start();
18.        t2.start();
19.    }
20.
21.    @Override
22.    public void run() {
23.        while (true) {
24.            synchronized (this) {
25.                try {
26.                    if (i <= 100) {
27.                        if (
```

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28.         (Thread.currentThread().getName().equals("odd") && i % 2 != 0) ||
29.         (Thread.currentThread().getName().equals("even") && i % 2 == 0)
30.     ) {
31.         System.out.println(String.format("%s:%s", Thread.currentThread().getName(), i));
32.         i++;
33.         notify();
34.     } else {
35.         wait();
36.     }
37. } else {
38.     return;
39. }
40. } catch (InterruptedException e) {
41.     e.printStackTrace();
42. }
43. }
44. }
45. }
46. }

```

2 123

2.1 Runnable

2.1.1

1~100

2.1.2

```

1. /**
2.  * @author peng.wei
3.  * @version 1.0
4.  * @date 2021/9/1 20:43
5.  * @Description      123
6.  */
7. public class AlternatePrinting2 implements Runnable {
8.     int i = 1;
9.
10.    public static void main(String[] args) {
11.        AlternatePrinting2 alternatePrinting = new AlternatePrinting2();
12.        Thread t1 = new Thread(alternatePrinting, "1");
13.        Thread t2 = new Thread(alternatePrinting, "2");

```

```

14.     Thread t3 = new Thread(alternatePrinting, "3");
15.
16.     t1.start();
17.     t2.start();
18.     t3.start();
19. }
20.
21. @Override
22. public void run() {
23.     while (true) {
24.         synchronized (this) {
25.             try {
26.                 if (i <= 100) {
27.                     if (i % 3 == Integer.parseInt(Thread.currentThread().getName()) - 1) {
28.                         System.out.println(String.format("%s:%s", Thread.currentThread().getName(), i));
29.                         i++;
30.                         notifyAll();
31.                     } else {
32.                         wait();
33.                     }
34.                 } else {
35.                     return;
36.                 }
37.             } catch (InterruptedException e) {
38.                 e.printStackTrace();
39.             }
40.         }
41.     }
42. }
43. }

```

1. 1-100

2. Java 0~100

3. _1. ABC...2. AB 3. 4.