### 事务项集：0到20所有整数

## 事务规模：50，支持度：7

[0, 1, 7, 20], [0, 5, 6, 18], [0, 5, 7, 18], [0, 5, 7, 20], [0, 5, 16, 18], [0, 5, 18, 20], [0, 7, 17, 20], [0, 7, 18, 20], [1, 5, 11, 18], [1, 5, 18, 20], [1, 6, 7, 18], [1, 6, 18, 20], [1, 7, 13, 17], [1, 7, 18, 20], [1, 11, 18, 20], [1, 12, 18, 20], [2, 3, 4, 5], [2, 3, 5, 17], [2, 3, 7, 17], [2, 4, 6, 11], [2, 4, 6, 13], [2, 5, 13, 18], [2, 12, 13, 14], [2, 12, 14, 15], [2, 12, 15, 19], [2, 13, 14, 15], [2, 13, 14, 19], [2, 13, 16, 19], [4, 5, 6, 11], [4, 6, 8, 11], [4, 6, 11, 13], [4, 6, 11, 16], [4, 6, 11, 18], [5, 6, 11, 18], [5, 7, 18, 20], [5, 11, 13, 18], [5, 12, 13, 18], [5, 12, 18, 20], [6, 7, 18, 20], [6, 11, 16, 18], [6, 13, 14, 19], [6, 13, 16, 19], [7, 9, 18, 20], [7, 13, 17, 18], [7, 16, 18, 20], [11, 13, 17, 18], [12, 13, 14, 19], [13, 14, 16, 19]

## 事务规模：100，支持度：15

[0, 1, 3], [0, 1, 5], [0, 1, 15], [0, 1, 16], [0, 2, 12], [0, 2, 16], [0, 2, 20], [0, 3, 4], [0, 3, 5], [0, 3, 6], [0, 3, 8], [0, 3, 9], [0, 3, 10], [0, 3, 12], [0, 3, 13], [0, 3, 15], [0, 3, 16], [0, 3, 17], [0, 3, 20], [0, 4, 8], [0, 4, 9], [0, 4, 12], [0, 4, 13], [0, 4, 17], [0, 5, 6], [0, 5, 8], [0, 5, 9], [0, 5, 12], [0, 5, 13], [0, 5, 16], [0, 5, 17], [0, 5, 18], [0, 5, 19], [0, 5, 20], [0, 6, 9], [0, 6, 13], [0, 6, 16], [0, 6, 20], [0, 8, 9], [0, 8, 10], [0, 8, 13], [0, 8, 16], [0, 9, 10], [0, 9, 13], [0, 9, 15], [0, 9, 16], [0, 9, 17], [0, 9, 18], [0, 9, 20], [0, 10, 12], [0, 10, 13], [0, 10, 17], [0, 10, 18], [0, 10, 20], [0, 12, 13], [0, 12, 16], [0, 12, 17], [0, 12, 20], [0, 13, 15], [0, 13, 16], [0, 13, 20], [0, 14, 17], [0, 15, 18], [0, 15, 20], [0, 16, 17], [0, 16, 18], [0, 16, 19], [0, 16, 20], [0, 17, 18], [0, 17, 19], [0, 18, 20], [1, 2, 20], [1, 3, 4], [1, 3, 5], [1, 3, 7], [1, 3, 8], [1, 3, 12], [1, 3, 13], [1, 3, 15], [1, 3, 16], [1, 4, 7], [1, 4, 15], [1, 5, 8], [1, 5, 13], [1, 5, 16], [1, 5, 18], [1, 7, 15], [1, 7, 18], [1, 8, 12], [1, 8, 13], [1, 8, 16], [1, 10, 15], [1, 12, 15], [1, 15, 18], [1, 15, 20], [2, 5, 13], [2, 5, 16], [2, 5, 20], [2, 10, 20], [2, 12, 20], [2, 13, 16], [2, 13, 20], [2, 15, 20], [2, 16, 20], [2, 17, 20], [2, 19, 20], [3, 4, 5], [3, 4, 8], [3, 4, 12], [3, 4, 13], [3, 4, 15], [3, 4, 16], [3, 4, 17], [3, 4, 19], [3, 5, 8], [3, 5, 9], [3, 5, 13], [3, 5, 16], [3, 6, 16], [3, 8, 9], [3, 8, 10], [3, 8, 12], [3, 8, 13], [3, 8, 16], [3, 8, 17], [3, 9, 16], [3, 10, 20], [3, 12, 17], [3, 13, 15], [3, 13, 16], [3, 15, 20], [3, 16, 17], [3, 16, 19], [3, 16, 20], [3, 17, 19], [4, 5, 8], [4, 5, 13], [4, 5, 17], [4, 5, 19], [4, 7, 8], [4, 7, 15], [4, 7, 19], [4, 8, 9], [4, 8, 10], [4, 8, 12], [4, 8, 13], [4, 8, 15], [4, 8, 16], [4, 8, 17], [4, 8, 19], [4, 10, 11], [4, 10, 15], [4, 10, 17], [4, 10, 19], [4, 11, 12], [4, 11, 13], [4, 11, 15], [4, 11, 17], [4, 11, 19], [4, 12, 13], [4, 12, 15], [4, 12, 17], [4, 13, 15], [4, 13, 16], [4, 13, 17], [4, 15, 17], [4, 15, 18], [4, 15, 19], [4, 17, 19], [5, 6, 13], [5, 7, 18], [5, 8, 9], [5, 8, 10], [5, 8, 12], [5, 8, 13], [5, 8, 16], [5, 8, 17], [5, 8, 18], [5, 9, 12], [5, 9, 16], [5, 9, 18], [5, 11, 13], [5, 12, 13], [5, 12, 16], [5, 12, 18], [5, 13, 15], [5, 13, 16], [5, 13, 20], [5, 15, 18], [5, 16, 18], [5, 16, 19], [5, 16, 20], [5, 17, 19], [5, 18, 20], [6, 8, 13], [6, 10, 20], [6, 13, 16], [7, 8, 13], [7, 8, 15], [7, 8, 18], [7, 12, 15], [7, 12, 18], [7, 14, 18], [7, 15, 18], [7, 15, 19], [7, 17, 19], [8, 9, 10], [8, 9, 12], [8, 10, 15], [8, 10, 17], [8, 10, 20], [8, 12, 13], [8, 12, 15], [8, 12, 16], [8, 13, 15], [8, 13, 16], [9, 13, 15], [10, 11, 17], [10, 13, 15], [10, 16, 20], [10, 17, 19], [10, 17, 20], [11, 13, 15], [12, 13, 16], [12, 15, 18], [12, 16, 20], [12, 17, 18], [12, 17, 20], [13, 15, 18], [15, 17, 19], [16, 17, 20], [17, 19, 20]

## 事务规模：500，支持度：75

[0, 3, 15], [0, 4, 8], [0, 4, 15], [0, 7, 15], [0, 8, 15], [0, 12, 15], [1, 2, 3], [1, 2, 4], [1, 2, 5], [1, 2, 6], [1, 2, 10], [1, 2, 14], [1, 2, 17], [1, 2, 18], [1, 3, 5], [1, 3, 6], [1, 3, 14], [1, 3, 17], [1, 4, 7], [1, 4, 8], [1, 4, 14], [1, 4, 15], [1, 4, 17], [1, 4, 18], [1, 4, 19], [1, 4, 20], [1, 5, 6], [1, 5, 14], [1, 6, 14], [1, 6, 17], [1, 7, 14], [1, 8, 14], [1, 10, 17], [1, 14, 15], [1, 14, 16], [1, 14, 17], [1, 14, 18], [1, 14, 19], [1, 15, 20], [2, 5, 9], [2, 7, 14], [3, 5, 6], [3, 5, 9], [3, 6, 9], [3, 6, 12], [3, 6, 17], [3, 6, 18], [3, 8, 13], [3, 8, 17], [3, 17, 20], [4, 5, 14], [4, 5, 15], [4, 7, 8], [4, 7, 14], [4, 7, 19], [4, 8, 14], [4, 8, 17], [4, 14, 16], [4, 14, 19], [5, 6, 9], [5, 6, 14], [5, 6, 15], [5, 6, 17], [5, 7, 9], [5, 7, 14], [5, 9, 15], [5, 9, 16], [5, 9, 17], [5, 14, 15], [5, 14, 16], [5, 14, 17], [5, 14, 19], [5, 15, 16], [6, 7, 17], [6, 9, 17], [6, 12, 17], [6, 14, 17], [6, 14, 18], [6, 16, 17], [7, 9, 14], [7, 11, 14], [7, 11, 15], [7, 12, 15], [7, 14, 15], [7, 14, 17], [7, 14, 19], [8, 14, 17], [9, 17, 18], [11, 14, 15], [12, 15, 20], [14, 17, 18], [15, 17, 20], [17, 18, 20]

## 事务规模：1000，支持度：150

[2, 10, 14]

## 事务规模：5000，支持度：750

[0, 1], [0, 2], [0, 3], [0, 4], [0, 5], [0, 6], [0, 7], [0, 8], [0, 9], [0, 10], [0, 11], [0, 12], [0, 13], [0, 14], [0, 15], [0, 16], [0, 17], [0, 18], [0, 19], [0, 20], [1, 2], [1, 3], [1, 4], [1, 5], [1, 6], [1, 7], [1, 8], [1, 9], [1, 10], [1, 11], [1, 12], [1, 13], [1, 14], [1, 15], [1, 16], [1, 17], [1, 18], [1, 19], [1, 20], [2, 3], [2, 4], [2, 5], [2, 6], [2, 7], [2, 8], [2, 9], [2, 10], [2, 11], [2, 12], [2, 13], [2, 14], [2, 15], [2, 16], [2, 17], [2, 18], [2, 19], [2, 20], [3, 4], [3, 5], [3, 6], [3, 7], [3, 8], [3, 9], [3, 10], [3, 11], [3, 12], [3, 13], [3, 14], [3, 15], [3, 16], [3, 17], [3, 18], [3, 19], [3, 20], [4, 5], [4, 6], [4, 7], [4, 8], [4, 9], [4, 10], [4, 11], [4, 12], [4, 13], [4, 14], [4, 15], [4, 16], [4, 17], [4, 18], [4, 19], [4, 20], [5, 6], [5, 7], [5, 8], [5, 9], [5, 10], [5, 11], [5, 12], [5, 13], [5, 14], [5, 15], [5, 16], [5, 17], [5, 18], [5, 19], [5, 20], [6, 7], [6, 8], [6, 9], [6, 10], [6, 11], [6, 12], [6, 13], [6, 14], [6, 15], [6, 16], [6, 17], [6, 18], [6, 19], [6, 20], [7, 8], [7, 9], [7, 10], [7, 11], [7, 12], [7, 13], [7, 14], [7, 15], [7, 16], [7, 17], [7, 18], [7, 19], [7, 20], [8, 9], [8, 10], [8, 11], [8, 12], [8, 13], [8, 14], [8, 15], [8, 16], [8, 17], [8, 18], [8, 19], [8, 20], [9, 10], [9, 11], [9, 12], [9, 13], [9, 14], [9, 15], [9, 16], [9, 17], [9, 18], [9, 19], [9, 20], [10, 11], [10, 12], [10, 13], [10, 14], [10, 15], [10, 16], [10, 17], [10, 18], [10, 19], [10, 20], [11, 12], [11, 13], [11, 14], [11, 15], [11, 16], [11, 17], [11, 18], [11, 19], [11, 20], [12, 13], [12, 14], [12, 15], [12, 16], [12, 17], [12, 18], [12, 19], [12, 20], [13, 14], [13, 15], [13, 16], [13, 17], [13, 18], [13, 19], [13, 20], [14, 15], [14, 16], [14, 17], [14, 18], [14, 19], [14, 20], [15, 16], [15, 17], [15, 18], [15, 19], [15, 20], [16, 17], [16, 18], [16, 19], [16, 20], [17, 18], [17, 19], [17, 20], [18, 19], [18, 20], [19, 20]

**注意到，此时最大频繁项集大小为2，数量为210，也就是说21个项的所有排列组合全部是最大频繁项。**

## 事务规模：10000，支持度：1500

最大频繁项大小为2，数量为210，同上。

## 事务规模：50000，支持度：7500

最大频繁项大小为2，数量为210，同上。