

**There are 216 labeled 3-node T\_0-hypergraphs without multiple hyperedges  
(empty hyperedge included):**

(A hypergraph is a T\_0 hypergraph if for every two distinct nodes there exists a hyperedge containing one but not the other node)

12 hypergraphs with 2 hyperedges:

```
1      {{3},{2}}
2      {{3},{2,3}}
3      {{2},{2,3}}
4      {{3},{1}}
5      {{3},{1,3}}
6      {{2},{1}}
7      {{2,3},{1,3}}
8      {{2},{1,2}}
9      {{2,3},{1,2}}
10     {{1},{1,3}}
11     {{1},{1,2}}
12     {{1,3},{1,2}}
```

44 hypergraphs with 3 hyperedges:

```
1      {{},{3},{2}}
2      {{},{3},{2,3}}
3      {{},{2},{2,3}}
4      {{3},{2},{2,3}}
5      {{},{3},{1}}
6      {{},{3},{1,3}}
7      {{},{2},{1}}
8      {{},{2,3},{1,3}}
9      {{3},{2},{1}}
10     {{3},{2},{1,3}}
11     {{3},{2,3},{1}}
12     {{3},{2,3},{1,3}}
13     {{},{2},{1,2}}
14     {{},{2,3},{1,2}}
15     {{3},{2},{1,2}}
16     {{3},{2},{1,2,3}}
17     {{3},{2,3},{1,2}}
18     {{3},{2,3},{1,2,3}}
19     {{2},{2,3},{1}}
20     {{2},{2,3},{1,3}}
21     {{2},{2,3},{1,2}}
22     {{2},{2,3},{1,2,3}}
23     {{},{1},{1,3}}
24     {{3},{1},{1,3}}
25     {{},{1},{1,2}}
26     {{},{1,3},{1,2}}
27     {{3},{1},{1,2}}
```

```

28      {{3},{1},{1,2,3}}
29      {{3},{1,3},{1,2}}
30      {{3},{1,3},{1,2,3}}
31      {{2},{1},{1,3}}
32      {{2,3},{1},{1,3}}
33      {{2},{1},{1,2}}
34      {{2},{1},{1,2,3}}
35      {{2},{1,3},{1,2}}
36      {{2,3},{1},{1,2}}
37      {{2,3},{1,3},{1,2}}
38      {{2,3},{1,3},{1,2,3}}
39      {{2},{1,2},{1,2,3}}
40      {{2,3},{1,2},{1,2,3}}
41      {{1},{1,3},{1,2}}
42      {{1},{1,3},{1,2,3}}
43      {{1},{1,2},{1,2,3}}
44      {{1,3},{1,2},{1,2,3}}

```

67 hypergraphs with 4 hyperedges:

```

1      {{}, {3}, {2}, {2,3}}
2      {{}, {3}, {2}, {1}}
3      {{}, {3}, {2}, {1,3}}
4      {{}, {3}, {2,3}, {1}}
5      {{}, {3}, {2,3}, {1,3}}
6      {{}, {3}, {2}, {1,2}}
7      {{}, {3}, {2}, {1,2,3}}
8      {{}, {3}, {2,3}, {1,2}}
9      {{}, {3}, {2,3}, {1,2,3}}
10     {{}, {2}, {2,3}, {1}}
11     {{}, {2}, {2,3}, {1,3}}
12     {{3}, {2}, {2,3}, {1}}
13     {{3}, {2}, {2,3}, {1,3}}
14     {{}, {2}, {2,3}, {1,2}}
15     {{}, {2}, {2,3}, {1,2,3}}
16     {{3}, {2}, {2,3}, {1,2}}
17     {{3}, {2}, {2,3}, {1,2,3}}
18     {{}}{3}, {1}, {1,3}}
19     {{}, {3}, {1}, {1,2}}
20     {{}, {3}, {1}, {1,2,3}}
21     {{}, {3}, {1,3}, {1,2}}
22     {{}, {3}, {1,3}, {1,2,3}}
23     {{}, {2}, {1}, {1,3}}
24     {{}, {2,3}, {1}, {1,3}}
25     {{3}, {2}, {1}, {1,3}}
26     {{3}, {2,3}, {1}, {1,3}}
27     {{}, {2}, {1}, {1,2}}
28     {{}, {2}, {1}, {1,2,3}}
29     {{}, {2}, {1,3}, {1,2}}
30     {{}, {2,3}, {1}, {1,2}}
31     {{}, {2,3}, {1,3}, {1,2}}
32     {{}, {2,3}, {1,3}, {1,2,3}}
33     {{3}, {2}, {1}, {1,2}}
34     {{3}, {2}, {1}, {1,2,3}}
35     {{3}, {2}, {1,3}, {1,2}}

```

```

36      {{3},{2},{1,3},{1,2,3}}
37      {{3},{2,3},{1},{1,2}}
38      {{3},{2,3},{1},{1,2,3}}
39      {{3},{2,3},{1,3},{1,2}}
40      {{3},{2,3},{1,3},{1,2,3}}
41      {{},{2},{1,2},{1,2,3}}
42      {{},{2,3},{1,2},{1,2,3}}
43      {{3},{2},{1,2},{1,2,3}}
44      {{3},{2,3},{1,2},{1,2,3}}
45      {{2},{2,3},{1},{1,3}}
46      {{2},{2,3},{1},{1,2}}
47      {{2},{2,3},{1},{1,2,3}}
48      {{2},{2,3},{1,3},{1,2}}
49      {{2},{2,3},{1,3},{1,2,3}}
50      {{2},{2,3},{1,2},{1,2,3}}
51      {{},{1},{1,3},{1,2}}
52      {{},{1},{1,3},{1,2,3}}
53      {{3},{1},{1,3},{1,2}}
54      {{3},{1},{1,3},{1,2,3}}
55      {{},{1},{1,2},{1,2,3}}
56      {{},{1,3},{1,2},{1,2,3}}
57      {{3},{1},{1,2},{1,2,3}}
58      {{3},{1,3},{1,2},{1,2,3}}
59      {{2},{1},{1,3},{1,2}}
60      {{2},{1},{1,3},{1,2,3}}
61      {{2,3},{1},{1,3},{1,2}}
62      {{2,3},{1},{1,3},{1,2,3}}
63      {{2},{1},{1,2},{1,2,3}}
64      {{2},{1,3},{1,2},{1,2,3}}
65      {{2,3},{1},{1,2},{1,2,3}}
66      {{2,3},{1,3},{1,2},{1,2,3}}
67      {{1},{1,3},{1,2},{1,2,3}}

```

56 hypergraphs with 5 hyperedges:

```

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

```

```

21   {{}, {2}, {2, 3}, {1, 3}, {1, 2}}
22   {{}, {2}, {2, 3}, {1, 3}, {1, 2, 3}}
23   {{3}, {2}, {2, 3}, {1}, {1, 2}}
24   {{3}, {2}, {2, 3}, {1}, {1, 2, 3}}
25   {{3}, {2}, {2, 3}, {1, 3}, {1, 2}}
26   {{3}, {2}, {2, 3}, {1, 3}, {1, 2, 3}}
27   {{}, {2}, {2, 3}, {1, 2}, {1, 2, 3}}
28   {{3}, {2}, {2, 3}, {1, 2}, {1, 2, 3}}
29   {{}, {3}, {1}, {1, 3}, {1, 2}}
30   {{}, {3}, {1}, {1, 3}, {1, 2, 3}}
31   {{}, {3}, {1}, {1, 2}, {1, 2, 3}}
32   {{}, {3}, {1, 3}, {1, 2}, {1, 2, 3}}
33   {{}, {2}, {1}, {1, 3}, {1, 2}}
34   {{}, {2}, {1}, {1, 3}, {1, 2, 3}}
35   {{}, {2, 3}, {1}, {1, 3}, {1, 2}}
36   {{}, {2, 3}, {1}, {1, 3}, {1, 2, 3}}
37   {{3}, {2}, {1}, {1, 3}, {1, 2}}
38   {{3}, {2}, {1}, {1, 3}, {1, 2, 3}}
39   {{3}, {2, 3}, {1}, {1, 3}, {1, 2}}
40   {{3}, {2, 3}, {1}, {1, 3}, {1, 2, 3}}
41   {{}, {2}, {1}, {1, 2}, {1, 2, 3}}
42   {{}, {2}, {1, 3}, {1, 2}, {1, 2, 3}}
43   {{}, {2, 3}, {1}, {1, 2}, {1, 2, 3}}
44   {{}, {2, 3}, {1, 3}, {1, 2}, {1, 2, 3}}
45   {{3}, {2}, {1}, {1, 2}, {1, 2, 3}}
46   {{3}, {2}, {1, 3}, {1, 2}, {1, 2, 3}}
47   {{3}, {2, 3}, {1}, {1, 2}, {1, 2, 3}}
48   {{3}, {2, 3}, {1, 3}, {1, 2}, {1, 2, 3}}
49   {{2}, {2, 3}, {1}, {1, 3}, {1, 2}}
50   {{2}, {2, 3}, {1}, {1, 3}, {1, 2, 3}}
51   {{2}, {2, 3}, {1}, {1, 2}, {1, 2, 3}}
52   {{2}, {2, 3}, {1, 3}, {1, 2}, {1, 2, 3}}
53   {{}, {1}, {1, 3}, {1, 2}, {1, 2, 3}}
54   {{3}, {1}, {1, 3}, {1, 2}, {1, 2, 3}}
55   {{2}, {1}, {1, 3}, {1, 2}, {1, 2, 3}}
56   {{2, 3}, {1}, {1, 3}, {1, 2}, {1, 2, 3}}

```

28 hypergraphs with 6 hyperedges:

```

1   {{}, {3}, {2}, {2, 3}, {1}, {1, 3}}
2   {{}, {3}, {2}, {2, 3}, {1}, {1, 2}}
3   {{}, {3}, {2}, {2, 3}, {1}, {1, 2, 3}}
4   {{}, {3}, {2}, {2, 3}, {1, 3}, {1, 2}}
5   {{}, {3}, {2}, {2, 3}, {1, 3}, {1, 2, 3}}
6   {{}, {3}, {2}, {2, 3}, {1, 2}, {1, 2, 3}}
7   {{}, {3}, {2}, {1}, {1, 3}, {1, 2}}
8   {{}, {3}, {2}, {1}, {1, 3}, {1, 2, 3}}
9   {{}, {3}, {2, 3}, {1}, {1, 3}, {1, 2}}
10  {{}, {3}, {2, 3}, {1}, {1, 3}, {1, 2, 3}}
11  {{}, {3}, {2}, {1}, {1, 2}, {1, 2, 3}}
12  {{}, {3}, {2}, {1, 3}, {1, 2}, {1, 2, 3}}
13  {{}, {3}, {2, 3}, {1}, {1, 2}, {1, 2, 3}}
14  {{}, {3}, {2, 3}, {1, 3}, {1, 2}, {1, 2, 3}}
15  {{}, {2}, {2, 3}, {1}, {1, 3}, {1, 2}}
16  {{}, {2}, {2, 3}, {1}, {1, 3}, {1, 2, 3}}

```

```
17   {{3},{2},{2,3},{1},{1,3},{1,2}}  
18   {{3},{2},{2,3},{1},{1,3},{1,2,3}}  
19   {{},{2},{2,3},{1},{1,2},{1,2,3}}  
20   {{},{2},{2,3},{1,3},{1,2},{1,2,3}}  
21   {{3},{2},{2,3},{1},{1,2},{1,2,3}}  
22   {{3},{2},{2,3},{1,3},{1,2},{1,2,3}}  
23   {{},{3},{1},{1,3},{1,2},{1,2,3}}  
24   {{},{2},{1},{1,3},{1,2},{1,2,3}}  
25   {{},{2,3},{1},{1,3},{1,2},{1,2,3}}  
26   {{3},{2},{1},{1,3},{1,2},{1,2,3}}  
27   {{3},{2,3},{1},{1,3},{1,2},{1,2,3}}  
28   {{2},{2,3},{1},{1,3},{1,2},{1,2,3}}
```

8 hypergraphs with 7 hyperedges:

```
1   {{},{3},{2},{2,3},{1},{1,3},{1,2}}  
2   {{},{3},{2},{2,3},{1},{1,3},{1,2,3}}  
3   {{},{3},{2},{2,3},{1},{1,2},{1,2,3}}  
4   {{},{3},{2},{2,3},{1,3},{1,2},{1,2,3}}  
5   {{},{3},{2},{1},{1,3},{1,2},{1,2,3}}  
6   {{},{3},{2,3},{1},{1,3},{1,2},{1,2,3}}  
7   {{},{2},{2,3},{1},{1,3},{1,2},{1,2,3}}  
8   {{3},{2},{2,3},{1},{1,3},{1,2},{1,2,3}}
```

1 hypergraph with 8 hyperedges:

```
1   {{},{3},{2},{2,3},{1},{1,3},{1,2},{1,2,3}}
```