

First section: ‘winners1029’ — Sets with size 10 that have less than or equal to 29 sums.

1.  $[(0, 0), (0, 1), (0, 2), (0, 3), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (3, 0)],$
2.  $[(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1)],$
3.  $[(0, 0), (0, 1), (0, 2), (0, 3), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2)],$
4.  $[(0, 0), (0, 1), (0, 2), (0, 3), (1, 0), (1, 1), (1, 2), (1, 3), (2, 0), (2, 1)],$
5.  $[(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (1, 0), (1, 1), (1, 2), (1, 3), (2, 0)],$
6.  $[(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (0, 5), (1, 0), (1, 1), (1, 2), (2, 0)],$
7.  $[(0, 0), (0, 1), (0, 2), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (3, 1)],$
8.  $[(0, 0), (0, 1), (0, 2), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (2, 3)],$
9.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0)],$
10.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (3, 0), (3, 1)],$
11.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (3, 1), (3, 2)]$
12.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (2, 0), (2, 1), (2, 2), (2, 3)],$
13.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (2, 3), (2, 4)],$
14.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (2, 2), (3, 0), (3, 1), (4, 0)],$
15.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (4, 1)],$

16.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (5, 0)],$
17.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (5, 1)],$
18.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (6, 0)],$
19.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (2, 2), (3, 0), (3, 1), (3, 2)],$
20.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 1), (5, 0)],$
21.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 1), (5, 1)],$
22.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 1), (6, 1)],$
23.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (4, 0), (4, 1), (5, 0)],$
24.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (6, 0)],$
25.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (7, 0)],$
26.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 1), (4, 0), (4, 1), (5, 1)],$
27.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (2, 2), (3, 1), (3, 2), (4, 2)],$
28.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 1), (4, 1), (5, 1), (6, 1)],$
29.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 1), (4, 1), (5, 1), (7, 1)],$
30.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (3, 0), (3, 1), (4, 0), (5, 0), (6, 0)],$
31.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0)],$

32.  $[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (8, 0)]$ ,
33.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (2, 1), (2, 2), (3, 1), (3, 2), (4, 2)]$ ,
34.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (2, 1), (2, 2), (2, 3), (3, 2), (3, 3)]$ ,
35.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (2, 1), (2, 2), (2, 3), (3, 3), (3, 4)]$ ,
36.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (2, 2), (2, 3), (2, 4), (2, 5)]$ ,
37.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (1, 7)]$ ,
38.  $[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (3, 3), (3, 4), (4, 5)]$ ,
39.  $[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (4, 1), (5, 0)]$ ,
40.  $[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (5, 0), (6, 0)]$ ,
41.  $[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (4, 1), (5, 1)]$ ,
42.  $[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (3, 1), (4, 1), (5, 1), (6, 1)]$ ,
43.  $[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (4, 0), (4, 1), (5, 0), (6, 0)]$ ,
44.  $[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0)]$ ,
45.  $[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (6, 0), (8, 0)]$ ,
46.  $[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 1), (4, 1), (5, 1), (6, 1), (7, 1)]$ ,
47.  $[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (3, 1), (4, 0), (5, 0), (6, 0), (7, 0)]$ ,

48.  $[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (8, 0)]$ ,
49.  $[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (9, 0)]$ ,
50.  $[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (10, 0)]$ ,
51.  $[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (8, 0), (9, 0)]$ ,
52.  $[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (8, 0), (10, 0)]$ ,
53.  $[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (7, 0), (8, 0), (9, 0)]$ ,
54.  $[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (6, 0), (7, 0), (8, 0), (9, 0)]$ ,
55.  $[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (5, 0), (6, 0), (7, 0), (8, 0), (9, 0)]$ ,
56.  $[(0, 0), (0, 1), (1, 0), (2, 0), (4, 0), (5, 0), (6, 0), (7, 0), (8, 0), (9, 0)]$

Second section: ‘Winners925’ — List of Sets with size 9 and at most 25 sums, when one element is added and the new sumset size is less than or equal to 29 sums.

1.

$[(0, 0), (0, 1), (0, 2), (0, 3), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (0, -1)]$

2.

$[(0, 0), (0, 1), (0, 2), (0, 3), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (1, -1)]$

3.

$[(0, 0), (0, 1), (0, 2), (0, 3), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, -1)]$

4.

$[(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (1, 0), (1, 1), (1, 2), (2, 0), (0, -1)]$

5.

$[(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (1, 0), (1, 1), (1, 2), (2, 0), (1, -1)]$

6.

$[(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (1, 0), (1, 1), (1, 2), (2, 0), (2, -1)]$

7.

$[(0, 0), (0, 1), (0, 2), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (-1, 0)]$

8.

$[(0, 0), (0, 1), (0, 2), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (-1, 1)]$

9.

$[(0, 0), (0, 1), (0, 2), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (0, -1)]$

10.

$[(0, 0), (0, 1), (0, 2), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (1, -1)]$

11.

$[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (2, 0), (2, 1), (2, 2), (2, 3), (-1, 0)]$

12.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (-2, 0)]$

13.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (-2, 1)]$

14.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (-1, 0)]$

15.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (-1, 1)]$

16.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 0), (0, 2)]$

17.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 1), (1, -1)]$

18.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (3, 1), (4, 1), (2, -1)]$

19.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (-2, 0)]$

20.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (-2, 1)]$

21.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (-1, 0)]$

22.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (-1, 1)]$

23.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (-1, 2)]$

24.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (0, 2)]$

25.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (-2, 0)]$

26.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (-2, 1)]$

27.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (-1, 0)]$

28.

$[(0, 0), (0, 1), (1, 0), (1, 1), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (-1, 1)]$

29.

$[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (0, -2)]$

30.

$[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (0, -1)]$

31.

$[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (0, 2)]$

32.

$[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (0, 3)]$

33.

$[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (1, -2)]$

34.

$[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (1, -1)]$

35.

$[(0, 0), (0, 1), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (1, 8)]$

36.

$[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (6, 0), (-2, 0)]$

37.

$[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (6, 0), (-2, 1)]$

38.

$[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (6, 0), (-1, 0)]$

39.

$[(0, 0), (0, 1), (1, 0), (2, 0), (2, 1), (3, 0), (4, 0), (5, 0), (6, 0), (-1, 1)]$

40.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (-3, 0)]$

41.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (-3, 1)]$

42.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (-2, 0)]$

43.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (-2, 1)]$

44.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (-1, 0)]$

45.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (7, 0), (-1, 1)]$

46.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (8, 0), (-2, 0)]$

47.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (8, 0), (-2, 1)]$

48.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (8, 0), (-1, 0)]$

49.

$[(0, 0), (0, 1), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (8, 0), (-1, 1)]$

Section 3: 'Winners821' — set with 8 elements, add two new elements, new set has size 10 and less than or equal to 29 sums.

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#1: [(0, 1), (4, 0), (2, 1), (0, 0), (1, 1), (2, 0), (-3, 0), (3, 0), (-1, 0), (1, 0)]
#2: [(0, 1), (4, 0), (2, 1), (-3, 1), (0, 0), (-1, 1), (1, 1), (2, 0), (3, 0), (1, 0)]
#3: [(0, 1), (4, 0), (2, 1), (0, 0), (1, 1), (2, 0), (3, 0), (-2, 0), (-1, 0), (1, 0)]
#4: [(0, 1), (4, 0), (2, 1), (0, 0), (-1, 1), (1, 1), (2, 0), (3, 0), (-2, 0), (1, 0)]
#5: [(0, 1), (4, 0), (2, 1), (0, 0), (-2, 1), (1, 1), (2, 0), (3, 0), (-1, 0), (1, 0)]
#6: [(0, 1), (4, 0), (2, 1), (0, 0), (-2, 1), (1, 1), (-1, 1), (2, 0), (3, 0), (1, 0)]
#7: [(0, 1), (4, 0), (2, 1), (0, 0), (-1, 1), (1, 1), (2, 0), (3, 0), (1, 0), (-2, 2)]
#8: [(0, 1), (4, 0), (2, 1), (0, 0), (1, 1), (2, 0), (3, 0), (-1, 0), (0, 2), (1, 0)]
#9: [(0, 1), (4, 0), (1, 2), (2, 1), (0, 0), (1, 1), (2, 0), (3, 0), (-1, 0), (1, 0)]
#10: [(0, 1), (4, 0), (2, 1), (0, 0), (1, 1), (2, 0), (3, 0), (-1, 0), (6, 0), (1, 0)]
#11: [(0, 1), (4, 0), (2, 1), (0, 0), (-1, 1), (1, 1), (2, 0), (3, 0), (1, 0), (-1, 2)]
#12: [(0, 1), (4, 0), (2, 1), (0, 0), (-1, 1), (1, 1), (2, 0), (3, 0), (6, 0), (1, 0)]
#13: [(0, 1), (4, 0), (0, 0), (1, 1), (2, 0), (-3, 0), (3, 0), (-1, 0), (5, 0), (1, 0)]
#14: [(0, 1), (4, 0), (-3, 1), (0, 0), (-1, 1), (1, 1), (2, 0), (3, 0), (5, 0), (1, 0)]
#15: [(0, 1), (4, 0), (0, 0), (-1, 1), (1, 1), (2, 0), (3, 0), (-3, 2), (5, 0), (1, 0)]
#16: [(0, 1), (4, 0), (0, 0), (1, 1), (2, 0), (3, 0), (-2, 0), (-1, 0), (5, 0), (1, 0)]
#17: [(0, 1), (4, 0), (0, 0), (-1, 1), (1, 1), (2, 0), (3, 0), (-2, 0), (5, 0), (1, 0)]
#18: [(0, 1), (4, 0), (0, 0), (-2, 1), (1, 1), (2, 0), (3, 0), (-1, 0), (5, 0), (1, 0)]
#19: [(0, 1), (4, 0), (0, 0), (-2, 1), (1, 1), (-1, 1), (2, 0), (3, 0), (5, 0), (1, 0)]
#20: [(0, 1), (4, 0), (0, 0), (-1, 1), (1, 1), (2, 0), (3, 0), (5, 0), (1, 0), (-2, 2)]
#21: [(0, 1), (4, 0), (0, 0), (3, 1), (1, 1), (2, 0), (3, 0), (-1, 0), (5, 0), (1, 0)]
#22: [(0, 1), (4, 0), (0, 0), (1, 1), (7, 0), (2, 0), (3, 0), (-1, 0), (5, 0), (1, 0)]
#23: [(0, 1), (4, 0), (0, 0), (3, 1), (-1, 1), (1, 1), (2, 0), (3, 0), (5, 0), (1, 0)]
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#24: [(0, 1), (4, 0), (0, 0), (-1, 1), (1, 1), (7, 0), (2, 0), (3, 0), (5, 0), (1, 0)]
#25: [(0, 1), (4, 0), (0, 0), (2, 0), (-3, 0), (3, 0), (-2, 0), (5, 0), (6, 0), (1, 0)]
#26: [(0, 1), (4, 0), (0, 0), (2, 0), (-3, 0), (3, 0), (-1, 0), (5, 0), (6, 0), (1, 0)]
#27: [(0, 1), (4, 0), (-3, 1), (0, 0), (-2, 1), (2, 0), (3, 0), (5, 0), (6, 0), (1, 0)]
#28: [(0, 1), (4, 0), (-3, 1), (0, 0), (2, 0), (3, 0), (-1, 0), (5, 0), (6, 0), (1, 0)]
#29: [(0, 1), (4, 0), (-3, 1), (0, 0), (-1, 1), (2, 0), (3, 0), (5, 0), (6, 0), (1, 0)]
#30: [(0, 1), (4, 0), (0, 0), (-2, 1), (2, 0), (3, 0), (-2, 0), (5, 0), (6, 0), (1, 0)]
#31: [(0, 1), (4, 0), (0, 0), (2, 0), (3, 0), (-2, 0), (-1, 0), (5, 0), (6, 0), (1, 0)]
#32: [(0, 1), (4, 0), (0, 0), (-1, 1), (2, 0), (3, 0), (-2, 0), (5, 0), (6, 0), (1, 0)]
#33: [(0, 1), (4, 0), (0, 0), (-2, 1), (2, 0), (3, 0), (-1, 0), (5, 0), (6, 0), (1, 0)]
#34: [(0, 1), (4, 0), (0, 0), (-2, 1), (-1, 1), (2, 0), (3, 0), (5, 0), (6, 0), (1, 0)]
#35: [(0, 1), (4, 0), (0, 0), (3, 1), (2, 0), (3, 0), (-1, 0), (5, 0), (6, 0), (1, 0)]
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