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mbykovskyy / [sums\\_of\\_elements.java](#)

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<> Code - Revisions 1

An algorithm for generating all possible combinations of sums of elements.

 [sums\\_of\\_elements.java](#)

```
1 public List<Integer> sums(int sum, int offset, int[] array) {
2     List<Integer> sums = new ArrayList<Integer>(array.length - offset);
3
4     for (int i = offset; i < array.length; ++i) {
5         int total = sum + array[i];
6
7         sums.add(total);
8         sums.addAll(sums(total, i + 1, array));
9     }
10
11     return sums;
12 }
```