ESE5023 Assignment 01 Report

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1. Flowchart
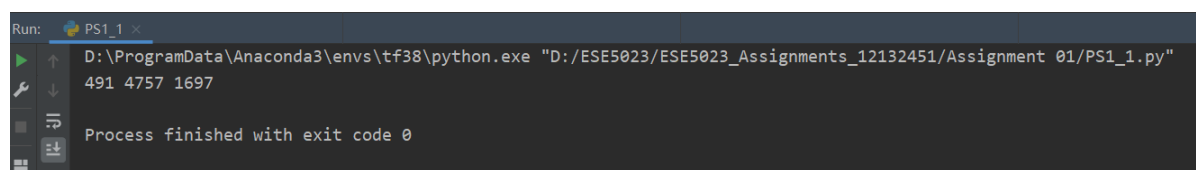
依照Flowchart的流程编写的 Print_values() 函数代码如下:

```python
def Print_values(a, b, c):
    if a > b:
        if b > c:
            print('a: %s, b: %s, c: %s.' % (a, b, c))
        elif a > c:
            print('a: %s, c: %s, b: %s.' % (a, c, b))
        else:
            print('c: %s, a: %s, b: %s.' % (c, a, b))
    elif not b > c:
        print('c: %s, b: %s, a: %s.' % (c, b, a))
    return
```

测试:

```python
if __name__ == "__main__":
    a = random.randint(0, 10000)
    b = random.randint(0, 10000)
    c = random.randint(0, 10000)
    print(a, b, c)
    Print_values(a, b, c)
```
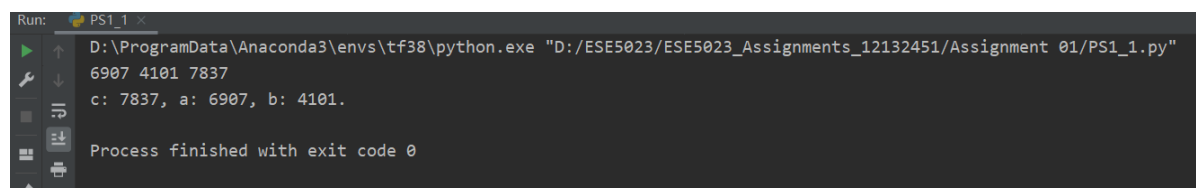
输出结果1:

可以看到该次实验的 abc 大小关系是 b>c>a，由于flowchart里没有对应的输出流程所以不输出结果

输出结果2:

可以看到该次实验的 abc 大小关系是 c>a>b，由于flowchart里有对应的输出流程所以输出了结果

2. Matrix multiplication

首先编写矩阵生成函数

参数 rows, cols 分别表示要生成矩阵的行数与列数

返回值 matrix 表示生成的随机数值的矩阵

```python
def matrix_gen(rows, cols):
    matrix = [[random.randint(0, 50) for i in range(cols)] for i in range(rows)]
    return matrix
```

接下来实现矩阵乘法函数

参数 m1, m2 分别表示进行乘法的两个矩阵，如果行列不匹配应该报错
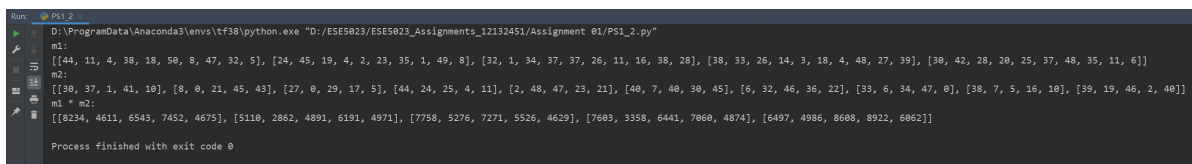
返回值 res_m 表示矩阵乘法结果

```python
def Matrix_multip(m1, m2):
    if len(m1[0]) != len(m2):
        raise ValueError("Matrix_multip: cols of m1 must be equal to rows of
m2!")
    res_m = matrix_gen(len(m1), len(m2[0]))
    for i in range(len(m1)):
        for j in range(len(m2[0])):
            res = 0
            for k in range(len(m2)):
                res += m1[i][k] * m2[k][j]
            res_m[i][j] = res

    return res_m
```

测试:

```python
if __name__ == "__main__":
    m1 = matrix_gen(5, 10)
    m2 = matrix_gen(10, 5)
    res = Matrix_multip(m1, m2)
    print('m1:')
    print(m1)
    print('m2:')
    print(m2)
    print('m1 * m2:')
    print(res)
```

输出结果：

3. Pascal triangle

Pascal triangle 实例:
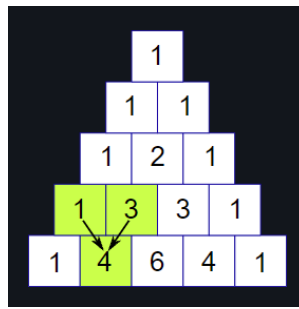
根据一定的数学知识可以得到第 k 行的 Pascal triangle 数值排列是

$$C_{k-1}^i \ (i = 0, 1, 2, \ldots, k-1)$$

据此可以编程如下：

```python
import math


def combination(n, k):
    com = math.factorial(n) / (math.factorial(k) * math.factorial(n - k))
    return com


def Pascal_triangle(k):
    kthentry = []
    for i in range(k + 1):
        kthentry.append(int(combination(k, i)))
    print(kthentry)
```

测试：

```python
if __name__ == "__main__":
    Pascal_triangle(100)
    Pascal_triangle(200)
```

输出结果：

[1, 100, 4950, 161700, 3921225, 75287520, 1192052400, 16007560800, 186087894300, 1902231808400, 17310309456440, 141629804643600, 1050421051106700, 7110542499799200, 44186942677323600, 253338471349988640, 1345860629046814720, 6650134872937201664, 30664510802988208128, 13234157293921259328, 535983370403809656832, 2041841411062132113408, 7332066885177656213504, 24865270306254660567040, 79776075565900366872576, 242519269720337124687872, 699574816500972471189504, 1917353200780443069186048, 4998813702034726544474112, 12410847811948286148870144, 29372339821610946892136448, 66324638306863419876179968, 143012501349174252866109440, 294692427022540895105843200, 580717429720889435197800448, 1095067153187962938871250944, 1977204582144932965722882048, 3420029547493938162305073152, 5670048986634687416247517184, 9013924030034630826029744128, 13746234145802810415403499520, 20116440213369968070607503360, 28258808871162573880278646784, 38116532895986725922963193856, 49378235797073715126587097088, 61448471214136181560759549952, 73470998190815001604406640640, 84413487283064040653534003200, 93206558875049879687625965568, 98913082887808039177110421504, 100891344545564202071714955264, 98913082887808039177110421504, 93206558875049879687625965568, 84413487283064040653534003200, 73470998190815001604406640640, 61448471214136181560759549952, 49378235797073715126587097088, 38116532895986725922963193856, 28258808871162573880278646784, 20116440213369968070607503360, 13746234145802810415403499520, 9013924030034630826029744128, 5670048986634687416247517184, 3420029547493938162305073152, 1977204582144932965722882048, 1095067153187962938871250944, 580717429720889435197800448, 294692427022540895105843200, 143012501349174252866109440, 66324638306863419876179968, 29372339821610946892136448, 12410847811948286148870144, 4998813702034726544474112, 1917353200780443069186048, 699574816500972471189504, 242519269720337124687872, 79776075565900366872576, 24865270306254660567040, 7332066885177656213504, 2041841411062132113408, 535983370403809656832, 13234157293921259328, 30664510802988208128, 6650134872937201664, 1345860629046814720, 253338471349988640, 44186942677323600, 7110542499799200, 1050421051106700, 141629804643600, 17310309456440, 1902231808400, 186087894300, 16007560800, 1192052400, 75287520, 3921225, 161700, 4950, 100, 1]

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```
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55098996177225, 2283896214600, 82408626300, 2535650040, 64684950, 1313400,
19900, 200, 1]
```

4. Add or double

本题的解决思路是将目标数字不断对 2 取模，每取一次模或者取模结果不为0，则步骤计数 +1，直到目标数字小于等于 1 为止

由此编写代码如下：

```python
import math


def Least_moves(x):
    cnt = 0
    while x > 1:
        cnt += x % 2
        x = math.floor(x / 2)
        cnt += 1
    return cnt
```

测试:

```python
if __name__ == "__main__":
    print(Least_moves(10))
    print(Least_moves(50))
    print(Least_moves(99))
```

输出结果:

```
4
7
9
```

验证如下:

1 -> 2 -> 4 -> 5 -> 10

1 -> 2 -> 3 -> 6 -> 12 -> 24 -> 25 -> 50

1 -> 2 -> 3 -> 6 -> 12 -> 24 -> 48 -> 49 -> 98 -> 99

5. Dynamic programming

本题使用穷举的方法，在数字 123456789 之间可以插入 3 种操作符：连接、+、-, 故总共有

$3^8 = 6561$

种可能

由此编写代码如下:

```python
import copy
import math


def del_specified_value(list, value):
    list_res = copy.deepcopy(list)
    j = 0
    for i in range(len(list_res)):
        if list_res[j] == value:
            list_res.pop(j)
        else:
            j += 1
    return list_res
```

```python
def segment(ops):
    numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9]
    op_nums = []  # oprate numbers indeed
    i = 0
    flag = 0
    temp = 0
    while i < len(ops):
        if flag == 0:
            temp = numbers[i]
        if ops[i] == 0:
            flag = 1
            temp = temp * 10 + numbers[i + 1]
            if i == len(ops) - 1:
                op_nums.append(temp)
        else:
            flag = 0
            op_nums.append(temp)
            if i == len(ops) - 1:
                op_nums.append(numbers[i + 1])
        i += 1
    return op_nums


def compute(ops):
    op_nums = segment(ops)

    ops_cur = del_specified_value(ops, 0)

    res = op_nums[0]
    for index, op in enumerate(ops_cur):
        if op == 1:
            res += op_nums[index + 1]
        elif op == 2:
            res -= op_nums[index + 1]
    return res


def print_expression(ops, res):
    op_nums = segment(ops)
    ops_cur = del_specified_value(ops, 0)
    print(op_nums[0], end='')
    for index, op in enumerate(ops_cur):
        if op == 1:
            print(' + ', end='')
        elif op == 2:
            print(' - ', end='')
        print(op_nums[index + 1], end='')
    print(' = %s' % res)


def Find_expression(value):
    # ops represents each operator
    ops = [0, 0, 0, 0, 0, 0, 0, 0]
    cnt = 0
    loop = True
    while loop:
```

```python
                res = compute(ops)
                if res == value:
                    print_expression(ops, res)
                    cnt += 1
                for i in range(len(ops)):
                    if ops[i] != 2:
                        ops[i] += 1
                        break
                    else:
                        ops[i] = 0
                        if i == len(ops) - 1:
                            loop = False
    return cnt
```

测试:
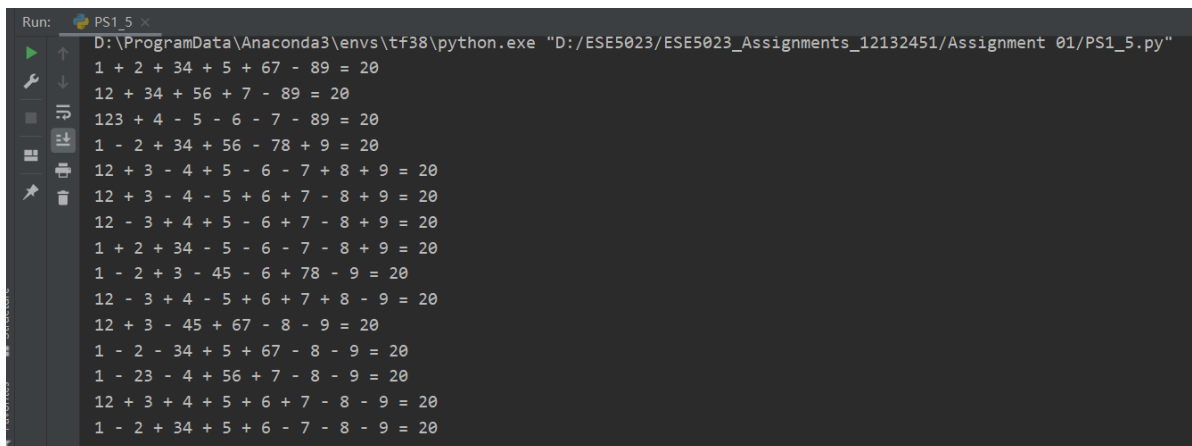
```python
if __name__ == "__main__":
    Find_expression(20)
```

输出结果:


```
Run:    PS1_5 ×
        D:\ProgramData\Anaconda3\envs\tf38\python.exe "D:/ESE5023/ESE5023_Assignments_12132451/Assignment 01/PS1_5.py"
        1 + 2 + 34 + 5 + 67 - 89 = 20
        12 + 34 + 56 + 7 - 89 = 20
        123 + 4 - 5 - 6 - 7 - 89 = 20
        1 - 2 + 34 + 56 - 78 + 9 = 20
        12 + 3 - 4 + 5 - 6 - 7 + 8 + 9 = 20
        12 + 3 - 4 - 5 + 6 + 7 - 8 + 9 = 20
        12 - 3 + 4 + 5 - 6 + 7 - 8 + 9 = 20
        1 + 2 + 34 - 5 - 6 - 7 - 8 + 9 = 20
        1 - 2 + 3 - 45 - 6 + 78 - 9 = 20
        12 - 3 + 4 - 5 + 6 + 7 + 8 - 9 = 20
        12 + 3 - 45 + 67 - 8 - 9 = 20
        1 - 2 - 34 + 5 + 67 - 8 - 9 = 20
        1 - 23 - 4 + 56 + 7 - 8 - 9 = 20
        12 + 3 + 4 + 5 + 6 + 7 - 8 - 9 = 20
        1 - 2 + 34 + 5 + 6 - 7 - 8 - 9 = 20
```

统计目标结果1-100的数据，使用如下代码:

```python
if __name__ == "__main__":
    table = []
    for i in range(1, 101):
        cnt = Find_expression(i)
        table.append(cnt)
    max_temp = 0
    min_temp = math.inf
    max = []
    min = []
    for index, t in enumerate(table):
        if t > max_temp:
            max_temp = t
            max.clear()
            max.append(index + 1)
        elif t == max_temp:
            max.append(index + 1)
        if t < min_temp:
            min_temp = t
            min.clear()
            min.append(index + 1)
        elif t == min_temp:
```

```
            min.append(index + 1)
    print('Total_solutions: %s' % table)
    print('max solutions: %s' % max)
    print('max solutions count: %s' % table[max[0]-1])
    print('min solutions: %s' % min)
    print('min solutions count: %s' % table[min[0] - 1])
```

输出结果：

```
Total_solutions: [26, 11, 18, 8, 21, 12, 17, 8, 22, 12, 21, 11, 16, 15, 20, 8,
17, 11, 20, 15, 16, 11, 23, 18, 13, 14, 21, 15, 19, 17, 14, 19, 19, 7, 14, 19,
19, 17, 18, 16, 17, 18, 10, 15, 26, 18, 15, 16, 12, 17, 19, 9, 17, 21, 16, 13,
14, 16, 17, 17, 11, 13, 22, 14, 13, 15, 15, 15, 17, 7, 14, 17, 15, 12, 13, 14,
14, 14, 10, 9, 19, 12, 13, 13, 12, 11, 12, 6, 12, 14, 16, 13, 11, 11, 10, 11, 7,
9, 17, 11]
max solutions: [1, 45]
max solutions count: 26
min solutions: [88]
min solutions count: 6
```

可以得到 solutions 最多的数字是 1 和 45，共有 26 solutions

solutions 最少的数字是 88，共有 6 solutions

将 Total_solutions 绘制成折线图

matplotlib 参考链接

numpy.linspace() 参考链接

```python
def plotTotalSolutions(total_solutions):
    x = np.linspace(1, 100, num=100, dtype=int)
    print(x)
    y = total_solutions
    print(y)
    plt.subplot(2, 1, 1)
    plt.title('Total Solutions')
    plt.plot(x, y, 'o-')
    plt.xlabel('target numbers')
    plt.ylabel('solutions')
    plt.show()
```
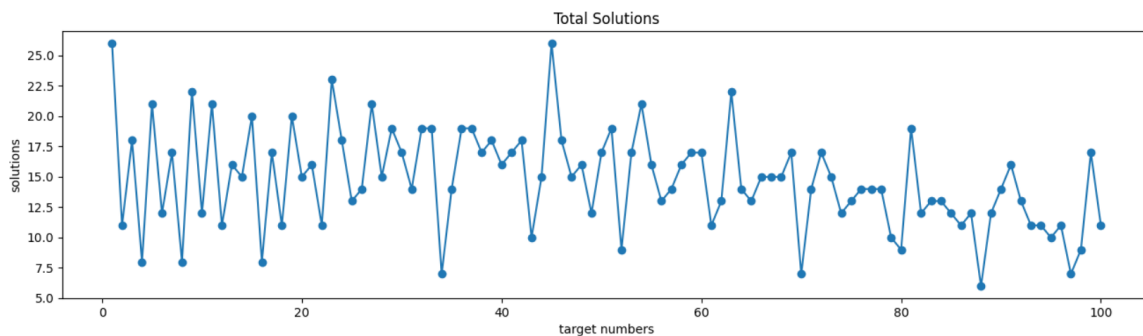

1-100 所有的 solutions 如下表所示：

目标数字	Solutions
	1 + 23 - 45 - 67 + 89 = 1
	1 - 23 - 4 + 5 - 67 + 89 = 1
	1 - 23 + 45 + 67 - 89 = 1
	1 + 23 + 4 - 5 + 67 - 89 = 1
	1 + 2 + 3 + 45 - 67 + 8 + 9 = 1
	12 + 34 + 5 - 67 + 8 + 9 = 1
	1 - 2 + 34 - 56 + 7 + 8 + 9 = 1
	12 - 34 + 5 - 6 + 7 + 8 + 9 = 1
	1 - 2 - 3 - 4 + 5 - 6 - 7 + 8 + 9 = 1
	1 + 2 + 3 - 4 - 5 - 6 - 7 + 8 + 9 = 1
	1 - 23 - 45 + 67 - 8 + 9 = 1
	1 - 23 + 4 + 5 + 6 + 7 - 8 + 9 = 1
	1 - 2 - 3 - 4 - 5 + 6 + 7 - 8 + 9 = 1
1	1 + 2 - 3 + 4 - 5 - 6 + 7 - 8 + 9 = 1
	1 + 2 - 3 - 4 + 5 + 6 - 7 - 8 + 9 = 1
	1 - 2 + 3 + 4 - 5 + 6 - 7 - 8 + 9 = 1
	1 + 23 + 45 - 67 + 8 - 9 = 1
	1 + 2 - 3 - 4 + 5 - 6 + 7 + 8 - 9 = 1
	1 - 2 + 3 + 4 - 5 - 6 + 7 + 8 - 9 = 1
	1 - 2 + 3 - 4 + 5 + 6 - 7 + 8 - 9 = 1
	1 + 2 + 3 + 4 + 5 - 6 - 7 + 8 - 9 = 1
	1 + 23 - 4 - 5 - 6 - 7 + 8 - 9 = 1
	1 - 2 - 3 - 45 + 67 - 8 - 9 = 1
	1 - 2 - 3 + 4 + 5 + 6 + 7 - 8 - 9 = 1
	1 + 2 + 3 + 4 - 5 + 6 + 7 - 8 - 9 = 1
	1 + 2 - 34 + 56 - 7 - 8 - 9 = 1
2	12 + 3 + 4 + 5 + 67 - 89 = 2
	1 + 23 + 4 + 56 + 7 - 89 = 2
	123 - 45 + 6 + 7 - 89 = 2
	123 + 4 - 56 - 78 + 9 = 2

	12 - 3 - 4 - 5 - 6 + 7 - 8 + 9 = 2
	12 + 3 + 4 - 5 - 6 - 7 - 8 + 9 = 2
	1 - 2 + 34 + 56 - 78 - 9 = 2
	12 + 3 - 4 + 5 - 6 - 7 + 8 - 9 = 2
	12 + 3 - 4 - 5 + 6 + 7 - 8 - 9 = 2
	12 - 3 + 4 + 5 - 6 + 7 - 8 - 9 = 2
	1 + 2 + 34 - 5 - 6 - 7 - 8 - 9 = 2
3	1 + 23 - 4 + 5 + 67 - 89 = 3
	123 - 45 - 6 - 78 + 9 = 3
	12 - 34 - 5 + 6 + 7 + 8 + 9 = 3
	1 - 23 + 4 + 5 + 6 - 7 + 8 + 9 = 3
	1 - 2 - 3 - 4 - 5 + 6 - 7 + 8 + 9 = 3
	1 + 2 - 3 + 4 - 5 - 6 - 7 + 8 + 9 = 3
	1 + 23 + 45 - 67 - 8 + 9 = 3
	1 + 2 - 3 - 4 + 5 - 6 + 7 - 8 + 9 = 3
	1 - 2 + 3 + 4 - 5 - 6 + 7 - 8 + 9 = 3
	1 - 2 + 3 - 4 + 5 + 6 - 7 - 8 + 9 = 3
	1 + 2 + 3 + 4 + 5 - 6 - 7 - 8 + 9 = 3
	1 + 23 - 4 - 5 - 6 - 7 - 8 + 9 = 3
	1 + 2 - 3 - 4 - 5 + 6 + 7 + 8 - 9 = 3
	1 - 2 + 3 - 4 + 5 - 6 + 7 + 8 - 9 = 3
	1 - 2 - 3 + 4 + 5 + 6 - 7 + 8 - 9 = 3
	1 + 2 + 3 + 4 - 5 + 6 - 7 - 8 - 9 = 3
	1 + 2 + 3 - 4 + 5 + 6 + 7 - 8 - 9 = 3
	1 + 23 + 4 + 5 - 6 - 7 - 8 - 9 = 3
4	12 - 34 - 56 - 7 + 89 = 4
	12 - 3 + 45 - 67 + 8 + 9 = 4
	1 + 2 - 34 + 5 + 6 + 7 + 8 + 9 = 4
	12 - 3 - 4 - 5 - 6 - 7 + 8 + 9 = 4
	12 + 3 - 4 + 5 - 6 - 7 - 8 + 9 = 4
	12 + 3 - 4 - 5 + 6 - 7 + 8 - 9 = 4

	12 - 3 + 4 + 5 - 6 - 7 + 8 - 9 = 4
	12 - 3 + 4 - 5 + 6 + 7 - 8 - 9 = 4
5	12 - 34 + 5 - 67 + 89 = 5
	1 - 2 - 34 - 56 + 7 + 89 = 5
	1 - 23 - 4 - 56 + 78 + 9 = 5
	1 + 2 + 34 - 56 + 7 + 8 + 9 = 5
	1 - 23 + 4 + 5 - 6 + 7 + 8 + 9 = 5
	1 - 2 - 3 - 4 - 5 - 6 + 7 + 8 + 9 = 5
	1 + 2 - 3 - 4 + 5 - 6 - 7 + 8 + 9 = 5
	1 - 2 + 3 + 4 - 5 - 6 - 7 + 8 + 9 = 5
	1 + 2 - 3 - 4 - 5 + 6 + 7 - 8 + 9 = 5
	1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 = 5
	1 - 2 - 3 + 4 + 5 + 6 - 7 - 8 + 9 = 5
	1 + 2 + 3 + 4 - 5 + 6 - 7 - 8 + 9 = 5
	1 - 2 - 3 - 4 - 56 + 78 - 9 = 5
	1 - 2 + 3 - 4 - 5 + 6 + 7 + 8 - 9 = 5
	1 - 2 - 3 + 4 + 5 - 6 + 7 + 8 - 9 = 5
	1 + 2 + 3 + 4 - 5 - 6 + 7 + 8 - 9 = 5
	1 + 2 + 3 - 4 + 5 + 6 - 7 + 8 - 9 = 5
	1 + 2 - 3 - 45 + 67 - 8 - 9 = 5
	1 + 2 - 3 + 4 + 5 + 6 + 7 - 8 - 9 = 5
	1 - 23 + 45 + 6 - 7 - 8 - 9 = 5
	1 + 23 + 4 - 5 + 6 - 7 - 8 - 9 = 5
6	1 - 2 + 34 - 5 + 67 - 89 = 6
	12 + 34 + 56 - 7 - 89 = 6
	12 + 3 + 4 + 56 - 78 + 9 = 6
	1 + 23 + 45 + 6 - 78 + 9 = 6
	12 + 3 - 4 - 5 + 6 - 7 - 8 + 9 = 6
	12 - 3 + 4 + 5 - 6 - 7 - 8 + 9 = 6
	1 + 2 + 34 + 56 - 78 - 9 = 6
	12 + 3 - 4 - 5 - 6 + 7 + 8 - 9 = 6

	12 - 3 + 4 - 5 + 6 - 7 + 8 - 9 = 6
	12 - 3 - 4 + 5 + 6 + 7 - 8 - 9 = 6
	1 - 23 - 4 + 56 - 7 - 8 - 9 = 6
	12 + 3 + 4 + 5 + 6 - 7 - 8 - 9 = 6
7	1 - 2 + 34 + 56 + 7 - 89 = 7
	1 + 23 - 4 + 56 - 78 + 9 = 7
	1 - 23 + 4 - 5 + 6 + 7 + 8 + 9 = 7
	1 + 2 - 3 - 4 - 5 + 6 - 7 + 8 + 9 = 7
	1 - 2 + 3 - 4 + 5 - 6 - 7 + 8 + 9 = 7
	1 - 2 + 3 - 4 - 5 + 6 + 7 - 8 + 9 = 7
	1 - 2 - 3 + 4 + 5 - 6 + 7 - 8 + 9 = 7
	1 + 2 + 3 + 4 - 5 - 6 + 7 - 8 + 9 = 7
	1 + 2 + 3 - 4 + 5 + 6 - 7 - 8 + 9 = 7
	1 - 2 - 3 + 4 - 5 + 6 + 7 + 8 - 9 = 7
	1 + 2 + 3 - 4 + 5 - 6 + 7 + 8 - 9 = 7
	1 + 2 - 3 + 4 + 5 + 6 - 7 + 8 - 9 = 7
	1 - 2 + 3 - 45 + 67 - 8 - 9 = 7
	1 - 2 + 3 + 4 + 5 + 6 + 7 - 8 - 9 = 7
	1 - 23 + 45 - 6 + 7 - 8 - 9 = 7
	1 + 23 + 4 - 5 - 6 + 7 - 8 - 9 = 7
	1 + 23 - 4 + 5 + 6 - 7 - 8 - 9 = 7
8	1 - 23 + 4 - 56 - 7 + 89 = 8
	12 + 3 - 4 - 5 - 6 + 7 - 8 + 9 = 8
	12 - 3 + 4 - 5 + 6 - 7 - 8 + 9 = 8
	1 - 23 - 45 + 6 + 78 - 9 = 8
	12 - 3 + 4 - 5 - 6 + 7 + 8 - 9 = 8
	12 - 3 - 4 + 5 + 6 - 7 + 8 - 9 = 8
	12 + 3 + 4 + 5 - 6 + 7 - 8 - 9 = 8
	1 - 2 + 34 + 5 - 6 - 7 - 8 - 9 = 8
9	1 - 23 + 4 + 5 - 67 + 89 = 9
	1 - 2 - 3 - 4 - 5 - 67 + 89 = 9

	1 + 2 - 34 - 56 + 7 + 89 = 9
	1 - 23 - 45 - 6 - 7 + 89 = 9
	12 - 34 - 56 + 78 + 9 = 9
	1 + 23 - 45 + 6 + 7 + 8 + 9 = 9
	1 - 23 - 4 + 5 + 6 + 7 + 8 + 9 = 9
	1 + 2 - 3 - 4 - 5 - 6 + 7 + 8 + 9 = 9
	1 - 2 + 3 - 4 - 5 + 6 - 7 + 8 + 9 = 9
	1 - 2 - 3 + 4 + 5 - 6 - 7 + 8 + 9 = 9
	1 + 2 + 3 + 4 - 5 - 6 - 7 + 8 + 9 = 9
	1 - 2 - 3 + 4 - 5 + 6 + 7 - 8 + 9 = 9
	1 + 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 = 9
	1 + 2 - 3 + 4 + 5 + 6 - 7 - 8 + 9 = 9
	1 + 2 - 3 - 4 - 56 + 78 - 9 = 9
	1 - 2 - 3 - 4 + 5 + 6 + 7 + 8 - 9 = 9
	1 + 2 + 3 - 4 - 5 + 6 + 7 + 8 - 9 = 9
	1 + 2 - 3 + 4 + 5 - 6 + 7 + 8 - 9 = 9
	1 - 2 + 3 + 4 + 5 + 6 - 7 + 8 - 9 = 9
	1 - 23 + 45 - 6 - 7 + 8 - 9 = 9
	1 + 23 + 4 - 5 - 6 - 7 + 8 - 9 = 9
	1 + 23 - 4 + 5 - 6 + 7 - 8 - 9 = 9
10	1 + 2 + 34 - 5 + 67 - 89 = 10
	12 + 3 + 45 - 67 + 8 + 9 = 10
	12 + 3 - 4 - 5 - 6 - 7 + 8 + 9 = 10
	12 - 3 + 4 - 5 - 6 + 7 - 8 + 9 = 10
	12 - 3 - 4 + 5 + 6 - 7 - 8 + 9 = 10
	123 - 45 - 67 + 8 - 9 = 10
	12 - 3 - 4 + 5 - 6 + 7 + 8 - 9 = 10
	12 + 3 + 4 + 5 - 6 - 7 + 8 - 9 = 10
	1 - 2 - 34 - 5 + 67 - 8 - 9 = 10
	12 + 3 + 4 - 5 + 6 + 7 - 8 - 9 = 10
	12 - 34 + 56 - 7 - 8 - 9 = 10

	1 - 2 + 34 - 5 + 6 - 7 - 8 - 9 = 10
11	1 + 23 + 4 + 5 + 67 - 89 = 11
	1 + 2 + 34 + 56 + 7 - 89 = 11
	1 - 2 + 3 - 4 - 5 - 6 + 7 + 8 + 9 = 11
	1 - 2 - 3 + 4 - 5 + 6 - 7 + 8 + 9 = 11
	1 + 2 + 3 - 4 + 5 - 6 - 7 + 8 + 9 = 11
	1 - 2 - 3 - 4 + 5 + 6 + 7 - 8 + 9 = 11
	1 + 2 + 3 - 4 - 5 + 6 + 7 - 8 + 9 = 11
	1 + 2 - 3 + 4 + 5 - 6 + 7 - 8 + 9 = 11
	1 - 2 + 3 + 4 + 5 + 6 - 7 - 8 + 9 = 11
	1 - 23 + 45 - 6 - 7 - 8 + 9 = 11
	1 + 23 + 4 - 5 - 6 - 7 - 8 + 9 = 11
	1 - 2 + 3 - 4 - 56 + 78 - 9 = 11
	1 + 2 - 3 + 4 - 5 + 6 + 7 + 8 - 9 = 11
	1 - 2 + 3 + 4 + 5 - 6 + 7 + 8 - 9 = 11
	1 + 23 - 4 + 5 - 6 - 7 + 8 - 9 = 11
	1 + 2 + 3 - 45 + 67 - 8 - 9 = 11
	1 - 2 - 34 + 56 + 7 - 8 - 9 = 11
	1 + 2 + 3 + 4 + 5 + 6 + 7 - 8 - 9 = 11
	1 + 23 - 4 - 5 + 6 + 7 - 8 - 9 = 11
	1 - 2 - 3 + 45 - 6 - 7 - 8 - 9 = 11
	12 + 34 - 5 - 6 - 7 - 8 - 9 = 11
12	123 + 45 - 67 - 89 = 12
	123 - 4 - 5 - 6 - 7 - 89 = 12
	12 - 3 + 4 - 5 - 6 - 7 + 8 + 9 = 12
	123 - 45 - 67 - 8 + 9 = 12
	12 - 3 - 4 + 5 - 6 + 7 - 8 + 9 = 12
	12 + 3 + 4 + 5 - 6 - 7 - 8 + 9 = 12
	12 - 3 - 4 - 5 + 6 + 7 + 8 - 9 = 12
	12 + 3 + 4 - 5 + 6 - 7 - 8 - 9 = 12
	12 + 3 - 4 + 5 + 6 + 7 - 8 - 9 = 12

	1 - 2 + 34 - 5 - 6 + 7 - 8 - 9 = 12
	1 + 2 + 34 + 5 - 6 - 7 - 8 - 9 = 12
13	1 + 2 - 3 - 4 - 5 - 67 + 89 = 13
	1 - 23 + 4 - 56 + 78 + 9 = 13
	12 - 34 + 5 + 6 + 7 + 8 + 9 = 13
	1 - 2 - 3 + 4 - 5 - 6 + 7 + 8 + 9 = 13
	1 - 2 - 3 - 4 + 5 + 6 - 7 + 8 + 9 = 13
	1 + 2 + 3 - 4 - 5 + 6 - 7 + 8 + 9 = 13
	1 + 2 - 3 + 4 + 5 - 6 - 7 + 8 + 9 = 13
	1 + 2 - 3 + 4 - 5 + 6 + 7 - 8 + 9 = 13
	1 - 2 + 3 + 4 + 5 - 6 + 7 - 8 + 9 = 13
	1 + 23 - 4 + 5 - 6 - 7 - 8 + 9 = 13
	1 - 2 - 3 + 4 - 56 + 78 - 9 = 13
	1 + 2 - 3 - 4 + 5 + 6 + 7 + 8 - 9 = 13
	1 - 2 + 3 + 4 - 5 + 6 + 7 + 8 - 9 = 13
	1 - 2 - 34 + 56 - 7 + 8 - 9 = 13
	1 + 2 + 3 + 4 + 5 + 6 - 7 + 8 - 9 = 13
	1 + 23 - 4 - 5 + 6 - 7 - 8 - 9 = 13
14	1 - 23 - 4 - 56 + 7 + 89 = 14
	1 - 23 - 45 - 6 + 78 + 9 = 14
	12 + 34 - 56 + 7 + 8 + 9 = 14
	12 - 3 - 4 + 5 - 6 - 7 + 8 + 9 = 14
	12 - 3 - 4 - 5 + 6 + 7 - 8 + 9 = 14
	12 + 3 + 4 - 5 + 6 - 7 - 8 + 9 = 14
	1 - 2 - 3 - 45 - 6 + 78 - 9 = 14
	12 + 3 + 4 - 5 - 6 + 7 + 8 - 9 = 14
	12 + 3 - 4 + 5 + 6 - 7 + 8 - 9 = 14
	1 - 2 + 34 - 5 - 6 - 7 + 8 - 9 = 14
	12 - 3 - 45 + 67 - 8 - 9 = 14
	1 + 2 - 34 - 5 + 67 - 8 - 9 = 14
	12 - 3 + 4 + 5 + 6 + 7 - 8 - 9 = 14

	1 - 23 + 4 + 56 - 7 - 8 - 9 = 14
	1 + 2 + 34 - 5 + 6 - 7 - 8 - 9 = 14
15	1 - 2 + 3 - 4 - 5 - 67 + 89 = 15
	1 + 23 + 4 + 56 - 78 + 9 = 15
	123 - 45 + 6 - 78 + 9 = 15
	1 - 2 - 3 - 4 + 5 - 6 + 7 + 8 + 9 = 15
	1 + 2 + 3 - 4 - 5 - 6 + 7 + 8 + 9 = 15
	1 + 2 - 3 + 4 - 5 + 6 - 7 + 8 + 9 = 15
	1 - 2 + 3 + 4 + 5 - 6 - 7 + 8 + 9 = 15
	1 + 2 - 3 - 4 + 5 + 6 + 7 - 8 + 9 = 15
	1 - 2 + 3 + 4 - 5 + 6 + 7 - 8 + 9 = 15
	1 - 2 - 34 + 56 - 7 - 8 + 9 = 15
	1 + 2 + 3 + 4 + 5 + 6 - 7 - 8 + 9 = 15
	1 + 23 - 4 - 5 + 6 - 7 - 8 + 9 = 15
	1 + 2 + 3 - 4 - 56 + 78 - 9 = 15
	12 + 34 + 56 - 78 - 9 = 15
	1 - 2 + 3 - 4 + 5 + 6 + 7 + 8 - 9 = 15
	1 + 2 + 3 + 4 + 5 - 6 + 7 + 8 - 9 = 15
	1 + 23 - 4 - 5 - 6 + 7 + 8 - 9 = 15
	1 + 2 - 34 + 56 + 7 - 8 - 9 = 15
	1 + 23 + 4 + 5 + 6 - 7 - 8 - 9 = 15
	1 + 2 - 3 + 45 - 6 - 7 - 8 - 9 = 15
16	1 - 2 + 34 + 5 + 67 - 89 = 16
	12 - 3 - 4 - 5 + 6 - 7 + 8 + 9 = 16
	12 + 3 + 4 - 5 - 6 + 7 - 8 + 9 = 16
	12 + 3 - 4 + 5 + 6 - 7 - 8 + 9 = 16
	1 - 2 + 34 - 5 - 6 - 7 - 8 + 9 = 16
	12 + 3 - 4 + 5 - 6 + 7 + 8 - 9 = 16
	12 - 3 + 4 + 5 + 6 - 7 + 8 - 9 = 16
	1 + 2 + 34 - 5 - 6 + 7 - 8 - 9 = 16
17	1 - 2 - 3 + 4 - 5 - 67 + 89 = 17

	1 - 23 - 45 + 67 + 8 + 9 = 17
	1 - 23 + 4 + 5 + 6 + 7 + 8 + 9 = 17
	1 - 2 - 3 - 4 - 5 + 6 + 7 + 8 + 9 = 17
	1 + 2 - 3 + 4 - 5 - 6 + 7 + 8 + 9 = 17
	1 + 2 - 3 - 4 + 5 + 6 - 7 + 8 + 9 = 17
	1 - 2 + 3 + 4 - 5 + 6 - 7 + 8 + 9 = 17
	1 - 2 + 3 - 4 + 5 + 6 + 7 - 8 + 9 = 17
	1 + 2 + 3 + 4 + 5 - 6 + 7 - 8 + 9 = 17
	1 + 23 - 4 - 5 - 6 + 7 - 8 + 9 = 17
	1 + 2 - 3 + 4 - 56 + 78 - 9 = 17
	1 - 2 - 3 - 45 + 67 + 8 - 9 = 17
	1 - 2 - 3 + 4 + 5 + 6 + 7 + 8 - 9 = 17
	1 + 2 + 3 + 4 - 5 + 6 + 7 + 8 - 9 = 17
	1 + 2 - 34 + 56 - 7 + 8 - 9 = 17
	1 + 23 + 4 + 5 - 6 + 7 - 8 - 9 = 17
	1 - 2 + 3 + 45 - 6 - 7 - 8 - 9 = 17
18	12 - 34 - 56 + 7 + 89 = 18
	1 - 2 - 3 - 4 - 56 - 7 + 89 = 18
	12 - 3 - 4 - 5 - 6 + 7 + 8 + 9 = 18
	12 + 3 + 4 - 5 - 6 - 7 + 8 + 9 = 18
	12 + 3 - 4 + 5 - 6 + 7 - 8 + 9 = 18
	12 - 3 + 4 + 5 + 6 - 7 - 8 + 9 = 18
	12 - 3 - 4 - 56 + 78 - 9 = 18
	1 + 2 - 3 - 45 - 6 + 78 - 9 = 18
	12 + 3 - 4 - 5 + 6 + 7 + 8 - 9 = 18
	12 - 3 + 4 + 5 - 6 + 7 + 8 - 9 = 18
	1 + 2 + 34 - 5 - 6 - 7 + 8 - 9 = 18
19	1 - 2 - 3 - 4 + 5 - 67 + 89 = 19
	1 + 2 + 3 - 4 - 5 - 67 + 89 = 19
	1 - 2 - 3 + 45 + 67 - 89 = 19
	12 + 34 - 5 + 67 - 89 = 19

	$1 + 23 + 45 - 67 + 8 + 9 = 19$
	$1 + 2 - 3 - 4 + 5 - 6 + 7 + 8 + 9 = 19$
	$1 - 2 + 3 + 4 - 5 - 6 + 7 + 8 + 9 = 19$
	$1 - 2 + 3 - 4 + 5 + 6 - 7 + 8 + 9 = 19$
	$1 + 2 + 3 + 4 + 5 - 6 - 7 + 8 + 9 = 19$
	$1 + 23 - 4 - 5 - 6 - 7 + 8 + 9 = 19$
	$1 - 2 - 3 - 45 + 67 - 8 + 9 = 19$
	$1 - 2 - 3 + 4 + 5 + 6 + 7 - 8 + 9 = 19$
	$1 + 2 + 3 + 4 - 5 + 6 + 7 - 8 + 9 = 19$
	$1 + 2 - 34 + 56 - 7 - 8 + 9 = 19$
	$1 - 2 + 3 + 4 - 56 + 78 - 9 = 19$
	$1 + 2 + 3 - 4 + 5 + 6 + 7 + 8 - 9 = 19$
	$1 + 23 + 4 + 5 - 6 - 7 + 8 - 9 = 19$
	$1 - 23 - 4 - 5 + 67 - 8 - 9 = 19$
	$1 - 23 + 45 + 6 + 7 - 8 - 9 = 19$
	$1 + 23 + 4 - 5 + 6 + 7 - 8 - 9 = 19$
20	$1 + 2 + 34 + 5 + 67 - 89 = 20$
	$12 + 34 + 56 + 7 - 89 = 20$
	$123 + 4 - 5 - 6 - 7 - 89 = 20$
	$1 - 2 + 34 + 56 - 78 + 9 = 20$
	$12 + 3 - 4 + 5 - 6 - 7 + 8 + 9 = 20$
	$12 + 3 - 4 - 5 + 6 + 7 - 8 + 9 = 20$
	$12 - 3 + 4 + 5 - 6 + 7 - 8 + 9 = 20$
	$1 + 2 + 34 - 5 - 6 - 7 - 8 + 9 = 20$
	$1 - 2 + 3 - 45 - 6 + 78 - 9 = 20$
	$12 - 3 + 4 - 5 + 6 + 7 + 8 - 9 = 20$
	$12 + 3 - 45 + 67 - 8 - 9 = 20$
	$1 - 2 - 34 + 5 + 67 - 8 - 9 = 20$
	$1 - 23 - 4 + 56 + 7 - 8 - 9 = 20$
	$12 + 3 + 4 + 5 + 6 + 7 - 8 - 9 = 20$
	$1 - 2 + 34 + 5 + 6 - 7 - 8 - 9 = 20$

21	1 + 2 - 3 + 4 - 5 - 67 + 89 = 21
	1 - 23 - 45 + 6 - 7 + 89 = 21
	1 + 2 - 3 - 4 - 5 + 6 + 7 + 8 + 9 = 21
	1 - 2 + 3 - 4 + 5 - 6 + 7 + 8 + 9 = 21
	1 - 2 - 3 + 4 + 5 + 6 - 7 + 8 + 9 = 21
	1 + 2 + 3 + 4 - 5 + 6 - 7 + 8 + 9 = 21
	1 + 2 + 3 - 4 + 5 + 6 + 7 - 8 + 9 = 21
	1 + 23 + 4 + 5 - 6 - 7 - 8 + 9 = 21
	123 - 4 - 5 - 6 - 78 - 9 = 21
	1 + 2 - 3 - 45 + 67 + 8 - 9 = 21
	1 + 2 - 3 + 4 + 5 + 6 + 7 + 8 - 9 = 21
	1 - 23 + 45 + 6 - 7 + 8 - 9 = 21
	1 + 23 + 4 - 5 + 6 - 7 - 8 - 9 = 21
	1 + 23 - 4 + 5 + 6 + 7 - 8 - 9 = 21
	1 + 2 + 3 + 45 - 6 - 7 - 8 - 9 = 21
	12 + 34 + 5 - 6 - 7 - 8 - 9 = 21
22	12 - 3 - 4 - 5 - 67 + 89 = 22
	1 - 23 + 4 - 56 + 7 + 89 = 22
	1 + 2 - 3 - 4 - 56 - 7 + 89 = 22
	123 - 4 + 5 - 6 - 7 - 89 = 22
	12 + 3 - 4 - 5 + 6 - 7 - 8 + 9 = 22
	12 - 3 + 4 + 5 - 6 - 7 + 8 + 9 = 22
	12 - 3 + 4 - 5 + 6 + 7 - 8 + 9 = 22
	12 - 3 - 4 + 5 + 6 + 7 + 8 - 9 = 22
	1 - 23 - 4 + 56 - 7 + 8 - 9 = 22
	12 + 3 + 4 + 5 + 6 - 7 + 8 - 9 = 22
	1 - 2 + 34 + 5 - 6 + 7 - 8 - 9 = 22
23	1 + 2 - 3 - 4 + 5 - 67 + 89 = 23
	1 - 2 + 3 + 4 - 5 - 67 + 89 = 23
	1 - 23 - 45 - 6 + 7 + 89 = 23
	1 + 2 - 3 + 45 + 67 - 89 = 23

	1 - 2 - 3 - 4 - 56 + 78 + 9 = 23
	1 - 2 + 3 - 4 - 5 + 6 + 7 + 8 + 9 = 23
	1 - 2 - 3 + 4 + 5 - 6 + 7 + 8 + 9 = 23
	1 + 2 + 3 + 4 - 5 - 6 + 7 + 8 + 9 = 23
	1 + 2 + 3 - 4 + 5 + 6 - 7 + 8 + 9 = 23
	1 + 2 - 3 - 45 + 67 - 8 + 9 = 23
	1 + 2 - 3 + 4 + 5 + 6 + 7 - 8 + 9 = 23
	1 - 23 + 45 + 6 - 7 - 8 + 9 = 23
	1 + 23 + 4 - 5 + 6 - 7 - 8 + 9 = 23
	1 + 2 + 3 + 4 - 56 + 78 - 9 = 23
	1 - 2 - 34 - 5 - 6 + 78 - 9 = 23
	1 - 2 + 3 - 45 + 67 + 8 - 9 = 23
	1 - 2 + 3 + 4 + 5 + 6 + 7 + 8 - 9 = 23
	1 - 23 + 45 - 6 + 7 + 8 - 9 = 23
	1 + 23 + 4 - 5 - 6 + 7 + 8 - 9 = 23
	1 + 23 - 4 + 5 + 6 - 7 + 8 - 9 = 23
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	12 + 34 - 5 + 6 - 7 - 8 - 9 = 23
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	123 - 4 - 5 + 6 - 7 - 89 = 24
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31	$1 + 2 - 3 + 4 + 5 - 67 + 89 = 31$
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34	$123 + 4 - 5 - 6 + 7 - 89 = 34$
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35	$1 - 23 - 45 + 6 + 7 + 89 = 35$
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	1 + 2 + 34 - 5 + 6 + 7 - 8 + 9 = 46
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47	1 + 23 - 4 + 5 - 67 + 89 = 47

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49	1 + 2 + 3 - 45 + 6 - 7 + 89 = 49

51	12 - 34 - 5 - 6 - 7 + 89 = 49
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	1 - 23 - 4 - 5 - 6 + 78 + 9 = 50
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	1 + 2 + 34 - 56 + 78 - 9 = 50
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57	1 + 2 - 3 - 45 + 6 + 7 + 89 = 57

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62	1 - 2 - 34 - 5 + 6 + 7 + 89 = 62
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63	1 - 2 - 3 + 45 - 67 + 89 = 63
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	123 + 4 - 56 - 7 + 8 - 9 = 63
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	123 + 45 - 6 - 7 - 89 = 66
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66	123 - 45 - 6 - 7 - 8 + 9 = 66
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	1 + 23 - 4 + 56 + 7 - 8 - 9 = 66
67	1 + 2 - 3 + 45 - 67 + 89 = 67
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68	1 + 2 - 3 + 4 + 56 + 7 - 8 + 9 = 68
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	123 + 4 + 5 + 6 - 78 + 9 = 69

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70	1 - 23 + 4 - 5 + 6 + 78 + 9 = 70
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71	1 - 23 - 4 - 5 + 6 + 7 + 89 = 71
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	123 - 4 - 56 + 7 - 8 + 9 = 71
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72	12 + 3 - 45 + 6 + 7 + 89 = 72
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	123 + 4 - 5 - 67 + 8 + 9 = 72
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	1 + 2 + 3 + 4 + 56 + 7 + 8 - 9 = 72
	12 + 3 + 45 + 6 + 7 + 8 - 9 = 72
73	1 + 2 + 3 + 45 - 67 + 89 = 73
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	1 + 2 + 3 + 4 - 5 + 67 - 8 + 9 = 73
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76	12 + 3 - 4 + 56 + 7 + 8 - 9 = 73
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	1 + 23 + 4 - 5 + 67 - 8 - 9 = 73
74	1 + 234 - 5 - 67 - 89 = 74
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	123 - 4 + 5 - 67 + 8 + 9 = 74
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	1 + 2 - 3 + 4 - 5 + 6 + 78 - 9 = 74
	1 - 2 + 3 + 4 + 5 - 6 + 78 - 9 = 74
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	1 + 23 + 4 + 56 + 7 - 8 - 9 = 74
	123 - 45 + 6 + 7 - 8 - 9 = 74
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76	12 - 3 + 45 - 67 + 89 = 76
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	1 + 2 - 3 - 4 + 5 + 6 + 78 - 9 = 76
	1 - 2 + 3 + 4 - 5 + 6 + 78 - 9 = 76
	12 - 3 - 4 + 5 + 67 + 8 - 9 = 76
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	123 - 45 + 6 - 7 + 8 - 9 = 76
77	1 + 2 + 34 - 56 + 7 + 89 = 77
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	1 + 2 - 3 - 4 + 5 - 6 - 7 + 89 = 77
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	12 + 3 + 4 - 5 - 6 + 78 - 9 = 77
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	123 + 4 - 56 + 7 + 8 - 9 = 77
78	123 + 45 + 6 - 7 - 89 = 78
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	1 + 2 + 3 + 4 + 5 - 6 + 78 - 9 = 78
	1 + 23 - 4 - 5 - 6 + 78 - 9 = 78
	123 - 45 - 6 + 7 + 8 - 9 = 78
	1 - 2 + 34 - 5 + 67 - 8 - 9 = 78
	12 + 34 + 56 - 7 - 8 - 9 = 78
79	1 - 23 + 4 - 5 + 6 + 7 + 89 = 79
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	1 - 2 + 3 - 4 + 5 - 6 - 7 + 89 = 79
	123 - 4 + 56 - 7 - 89 = 79
	1 - 2 - 3 + 4 - 5 + 67 + 8 + 9 = 79
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	1 - 2 + 3 + 4 + 5 + 67 - 8 + 9 = 79
	123 + 4 - 56 + 7 + 8 + 9 = 79
	12 + 3 - 4 + 5 - 6 + 78 - 9 = 79
	1 - 2 + 34 + 56 + 7 - 8 - 9 = 79
80	123 + 45 - 6 + 7 - 89 = 80
	1 - 23 + 4 + 5 + 6 + 78 + 9 = 80
	1 - 2 - 3 - 4 - 5 + 6 + 78 + 9 = 80
	1 + 2 - 3 + 4 - 5 - 6 + 78 + 9 = 80
	1 - 2 - 3 + 4 + 56 + 7 + 8 + 9 = 80
	123 - 45 - 6 + 7 - 8 + 9 = 80
	1 - 2 - 3 + 4 + 5 + 6 + 78 - 9 = 80
	1 + 2 + 3 + 4 - 5 + 6 + 78 - 9 = 80
	12 + 3 + 4 - 5 + 67 + 8 - 9 = 80
81	1 + 23 - 45 + 6 + 7 + 89 = 81
	1 - 23 - 4 + 5 + 6 + 7 + 89 = 81
	1 + 2 - 3 - 4 - 5 - 6 + 7 + 89 = 81
	1 - 2 + 3 - 4 - 5 + 6 - 7 + 89 = 81

81	1 - 2 - 3 + 4 + 5 - 6 - 7 + 89 = 81
	1 + 2 + 3 + 4 - 5 - 6 - 7 + 89 = 81
	12 - 3 - 4 - 5 - 6 + 78 + 9 = 81
	1 - 2 - 3 - 4 + 5 + 67 + 8 + 9 = 81
	1 + 2 + 3 - 4 - 5 + 67 + 8 + 9 = 81
	1 + 2 + 3 + 45 + 6 + 7 + 8 + 9 = 81
	12 + 34 + 5 + 6 + 7 + 8 + 9 = 81
	123 + 4 - 56 - 7 + 8 + 9 = 81
	12 + 3 - 4 - 5 + 6 + 78 - 9 = 81
	12 - 3 + 4 + 5 - 6 + 78 - 9 = 81
	1 + 2 + 3 + 4 + 5 + 67 + 8 - 9 = 81
	1 + 23 - 4 - 5 + 67 + 8 - 9 = 81
	12 + 3 + 4 + 56 + 7 + 8 - 9 = 81
	1 + 23 + 45 + 6 + 7 + 8 - 9 = 81
	1 - 2 + 34 + 56 - 7 + 8 - 9 = 81
82	12 + 3 + 45 - 67 + 89 = 82
	12 + 3 - 4 - 5 - 6 - 7 + 89 = 82
	1 + 2 - 3 - 4 + 5 - 6 + 78 + 9 = 82
	1 - 2 + 3 + 4 - 5 - 6 + 78 + 9 = 82
	123 + 4 + 5 - 67 + 8 + 9 = 82
	1 + 2 + 3 - 4 + 56 + 7 + 8 + 9 = 82
	123 - 45 - 6 - 7 + 8 + 9 = 82
	12 + 3 + 4 - 5 + 67 - 8 + 9 = 82
	1 + 2 + 3 - 4 + 5 + 6 + 78 - 9 = 82
	12 + 3 - 4 + 5 + 67 + 8 - 9 = 82
	1 + 23 - 4 + 56 + 7 + 8 - 9 = 82
	1 + 2 + 34 - 5 + 67 - 8 - 9 = 82
83	1 - 2 + 3 - 4 - 5 - 6 + 7 + 89 = 83
	1 - 2 - 3 + 4 - 5 + 6 - 7 + 89 = 83
	1 + 2 + 3 - 4 + 5 - 6 - 7 + 89 = 83
	1 + 234 - 56 - 7 - 89 = 83

	1 + 2 - 3 + 4 - 5 + 67 + 8 + 9 = 83
	1 + 2 + 3 + 4 + 5 + 67 - 8 + 9 = 83
	1 + 23 - 4 - 5 + 67 - 8 + 9 = 83
	12 + 3 + 4 + 56 + 7 - 8 + 9 = 83
	1 + 23 + 45 + 6 + 7 - 8 + 9 = 83
	1 - 2 + 34 + 56 - 7 - 8 + 9 = 83
	12 - 3 + 4 - 5 + 6 + 78 - 9 = 83
	1 + 23 + 4 + 5 + 67 - 8 - 9 = 83
	1 + 2 + 34 + 56 + 7 - 8 - 9 = 83
84	12 - 3 + 4 - 5 - 6 - 7 + 89 = 84
	1 + 234 + 5 - 67 - 89 = 84
	1 + 2 - 3 - 4 - 5 + 6 + 78 + 9 = 84
	1 - 2 + 3 - 4 + 5 - 6 + 78 + 9 = 84
	12 - 3 - 4 - 5 + 67 + 8 + 9 = 84
	1 + 2 - 3 + 4 + 56 + 7 + 8 + 9 = 84
	12 - 3 + 45 + 6 + 7 + 8 + 9 = 84
	12 + 3 - 4 + 5 + 67 - 8 + 9 = 84
	1 + 23 - 4 + 56 + 7 - 8 + 9 = 84
	1 + 2 - 3 + 4 + 5 + 6 + 78 - 9 = 84
	12 - 3 + 4 + 5 + 67 + 8 - 9 = 84
	123 + 45 - 67 - 8 - 9 = 84
	123 - 4 - 5 - 6 - 7 - 8 - 9 = 84
85	12 - 34 + 5 + 6 + 7 + 89 = 85
	1 - 2 - 3 + 4 - 5 - 6 + 7 + 89 = 85
	1 - 2 - 3 - 4 + 5 + 6 - 7 + 89 = 85
	1 + 2 + 3 - 4 - 5 - 6 - 7 + 89 = 85
	1 + 2 - 3 + 4 + 5 - 6 - 7 + 89 = 85
	1 + 2 - 3 - 4 + 5 + 67 + 8 + 9 = 85
	1 - 2 + 3 + 4 - 5 + 67 + 8 + 9 = 85
	12 - 3 - 4 + 56 + 7 + 8 + 9 = 85
	12 + 3 + 4 + 56 - 7 + 8 + 9 = 85

	1 + 23 + 45 + 6 - 7 + 8 + 9 = 85
	12 - 3 - 4 + 5 + 6 + 78 - 9 = 85
	1 + 2 + 34 + 56 - 7 + 8 - 9 = 85
86	12 + 34 - 56 + 7 + 89 = 86
	12 - 3 - 4 + 5 - 6 - 7 + 89 = 86
	1 - 2 + 3 - 4 - 5 + 6 + 78 + 9 = 86
	1 - 2 - 3 + 4 + 5 - 6 + 78 + 9 = 86
	1 + 2 + 3 + 4 - 5 - 6 + 78 + 9 = 86
	1 - 2 + 3 + 4 + 56 + 7 + 8 + 9 = 86
	1 + 23 - 4 + 56 - 7 + 8 + 9 = 86
	12 - 3 + 4 + 5 + 67 - 8 + 9 = 86
	1 - 2 + 3 + 4 + 5 + 6 + 78 - 9 = 86
	1 - 23 + 45 - 6 + 78 - 9 = 86
	1 + 23 + 4 - 5 - 6 + 78 - 9 = 86
87	1 - 2 - 3 - 4 + 5 - 6 + 7 + 89 = 87
	1 + 2 + 3 - 4 - 5 - 6 + 7 + 89 = 87
	1 + 2 - 3 + 4 - 5 + 6 - 7 + 89 = 87
	1 - 2 + 3 + 4 + 5 - 6 - 7 + 89 = 87
	123 + 4 + 56 - 7 - 89 = 87
	12 + 3 - 4 - 5 - 6 + 78 + 9 = 87
	1 - 2 + 3 - 4 + 5 + 67 + 8 + 9 = 87
	123 - 4 - 56 + 7 + 8 + 9 = 87
	1 + 23 + 45 - 6 + 7 + 8 + 9 = 87
	1 + 2 + 34 + 56 - 7 - 8 + 9 = 87
	12 + 3 + 4 + 5 - 6 + 78 - 9 = 87
	123 + 45 + 6 - 78 - 9 = 87
88	12 - 3 - 4 - 5 + 6 - 7 + 89 = 88
	1 - 2 - 3 + 4 - 5 + 6 + 78 + 9 = 88
	1 + 2 + 3 - 4 + 5 - 6 + 78 + 9 = 88
	1 + 23 - 4 + 5 - 6 + 78 - 9 = 88
	123 - 4 + 56 - 78 - 9 = 88

	1 - 2 + 34 + 5 + 67 - 8 - 9 = 88
89	1 - 23 - 45 + 67 + 89 = 89
	1 - 23 + 4 + 5 + 6 + 7 + 89 = 89
	1 - 2 - 3 - 4 - 5 + 6 + 7 + 89 = 89
	1 + 2 - 3 + 4 - 5 - 6 + 7 + 89 = 89
	1 + 2 - 3 - 4 + 5 + 6 - 7 + 89 = 89
	1 - 2 + 3 + 4 - 5 + 6 - 7 + 89 = 89
	12 - 3 + 4 - 5 - 6 + 78 + 9 = 89
	1 - 2 - 3 + 4 + 5 + 67 + 8 + 9 = 89
	1 + 2 + 3 + 4 - 5 + 67 + 8 + 9 = 89
	12 + 3 + 4 - 5 + 6 + 78 - 9 = 89
	1 - 23 + 45 + 67 + 8 - 9 = 89
	1 + 23 + 4 - 5 + 67 + 8 - 9 = 89
90	12 - 3 - 4 - 5 - 6 + 7 + 89 = 90
	12 + 3 + 4 - 5 - 6 - 7 + 89 = 90
	1 - 2 - 3 - 4 + 5 + 6 + 78 + 9 = 90
	1 + 2 + 3 - 4 - 5 + 6 + 78 + 9 = 90
	1 + 2 - 3 + 4 + 5 - 6 + 78 + 9 = 90
	12 + 3 - 4 - 5 + 67 + 8 + 9 = 90
	1 + 2 + 3 + 4 + 56 + 7 + 8 + 9 = 90
	12 + 3 + 45 + 6 + 7 + 8 + 9 = 90
	1 - 2 - 34 + 56 + 78 - 9 = 90
	1 + 2 + 3 + 4 + 5 + 6 + 78 - 9 = 90
	1 + 23 - 4 - 5 + 6 + 78 - 9 = 90
	12 + 3 + 4 + 5 + 67 + 8 - 9 = 90
	1 + 23 + 4 + 56 + 7 + 8 - 9 = 90
	123 - 45 + 6 + 7 + 8 - 9 = 90
91	1 + 23 + 45 - 67 + 89 = 91
	1 + 2 - 3 - 4 + 5 - 6 + 7 + 89 = 91
	1 - 2 + 3 + 4 - 5 - 6 + 7 + 89 = 91
	1 - 2 + 3 - 4 + 5 + 6 - 7 + 89 = 91

	1 + 2 + 3 + 4 + 5 - 6 - 7 + 89 = 91
	1 + 23 - 4 - 5 - 6 - 7 + 89 = 91
	12 - 3 - 4 + 5 - 6 + 78 + 9 = 91
	1 + 2 + 3 - 4 + 5 + 67 + 8 + 9 = 91
	12 + 3 - 4 + 56 + 7 + 8 + 9 = 91
	1 - 23 + 45 + 67 - 8 + 9 = 91
	1 + 23 + 4 - 5 + 67 - 8 + 9 = 91
	12 + 3 - 4 + 5 + 6 + 78 - 9 = 91
	1 - 2 + 34 - 5 - 6 + 78 - 9 = 91
	1 + 23 - 4 + 5 + 67 + 8 - 9 = 91
	1 - 2 - 3 + 45 + 67 - 8 - 9 = 91
	12 + 34 - 5 + 67 - 8 - 9 = 91
92	12 + 3 - 4 + 5 - 6 - 7 + 89 = 92
	123 - 4 - 5 + 67 - 89 = 92
	123 + 45 + 6 + 7 - 89 = 92
	1 + 2 - 3 + 4 - 5 + 6 + 78 + 9 = 92
	1 - 2 + 3 + 4 + 5 - 6 + 78 + 9 = 92
	12 - 3 + 4 - 5 + 67 + 8 + 9 = 92
	12 + 3 + 4 + 5 + 67 - 8 + 9 = 92
	1 + 23 + 4 + 56 + 7 - 8 + 9 = 92
	123 - 45 + 6 + 7 - 8 + 9 = 92
	1 + 234 - 56 - 78 - 9 = 92
	1 + 2 + 34 + 5 + 67 - 8 - 9 = 92
	12 + 34 + 56 + 7 - 8 - 9 = 92
	123 + 4 - 5 - 6 - 7 - 8 - 9 = 92
93	1 + 2 - 3 - 4 - 5 + 6 + 7 + 89 = 93
	1 - 2 + 3 - 4 + 5 - 6 + 7 + 89 = 93
	1 - 2 - 3 + 4 + 5 + 6 - 7 + 89 = 93
	1 + 2 + 3 + 4 - 5 + 6 - 7 + 89 = 93
	123 - 4 + 56 + 7 - 89 = 93
	12 - 3 - 4 - 5 + 6 + 78 + 9 = 93

	123 + 45 - 6 - 78 + 9 = 93
	1 + 2 - 3 + 4 + 5 + 67 + 8 + 9 = 93
	12 - 3 + 4 + 56 + 7 + 8 + 9 = 93
	1 + 23 - 4 + 5 + 67 - 8 + 9 = 93
	12 - 3 + 4 + 5 + 6 + 78 - 9 = 93
94	12 + 3 - 4 - 5 + 6 - 7 + 89 = 94
	12 - 3 + 4 + 5 - 6 - 7 + 89 = 94
	1 + 2 - 3 - 4 + 5 + 6 + 78 + 9 = 94
	1 - 2 + 3 + 4 - 5 + 6 + 78 + 9 = 94
	12 - 3 - 4 + 5 + 67 + 8 + 9 = 94
	1 + 23 + 4 + 56 - 7 + 8 + 9 = 94
	123 - 45 + 6 - 7 + 8 + 9 = 94
	1 + 2 - 34 + 56 + 78 - 9 = 94
	1 - 2 + 34 - 5 + 67 + 8 - 9 = 94
	12 + 34 + 56 - 7 + 8 - 9 = 94
	123 - 4 + 5 - 6 - 7 - 8 - 9 = 94
95	1 - 2 + 3 - 4 - 5 + 6 + 7 + 89 = 95
	1 - 2 - 3 + 4 + 5 - 6 + 7 + 89 = 95
	1 + 2 + 3 + 4 - 5 - 6 + 7 + 89 = 95
	1 + 2 + 3 - 4 + 5 + 6 - 7 + 89 = 95
	12 + 3 + 4 - 5 - 6 + 78 + 9 = 95
	1 - 2 + 3 + 4 + 5 + 67 + 8 + 9 = 95
	123 + 4 - 56 + 7 + 8 + 9 = 95
	1 + 2 + 34 - 5 - 6 + 78 - 9 = 95
	1 - 2 + 34 + 56 + 7 + 8 - 9 = 95
	1 + 2 - 3 + 45 + 67 - 8 - 9 = 95
96	12 + 3 - 4 - 5 - 6 + 7 + 89 = 96
	12 - 3 + 4 - 5 + 6 - 7 + 89 = 96
	1 - 2 + 3 - 4 + 5 + 6 + 78 + 9 = 96
	1 + 2 + 3 + 4 + 5 - 6 + 78 + 9 = 96
	1 + 23 - 4 - 5 - 6 + 78 + 9 = 96

	123 - 45 - 6 + 7 + 8 + 9 = 96
	1 - 2 + 34 - 5 + 67 - 8 + 9 = 96
	12 + 34 + 56 - 7 - 8 + 9 = 96
	1 + 23 + 4 + 5 - 6 + 78 - 9 = 96
	123 + 4 + 56 - 78 - 9 = 96
	123 - 4 - 5 + 6 + 7 - 8 - 9 = 96
97	1 - 2 - 3 + 4 - 5 + 6 + 7 + 89 = 97
	1 + 2 + 3 - 4 + 5 - 6 + 7 + 89 = 97
	1 + 2 - 3 + 4 + 5 + 6 - 7 + 89 = 97
	1 + 234 - 56 + 7 - 89 = 97
	12 + 3 - 4 + 5 - 6 + 78 + 9 = 97
	1 - 2 + 34 + 56 + 7 - 8 + 9 = 97
	1 - 2 + 3 + 45 + 67 - 8 - 9 = 97
98	12 - 3 + 4 - 5 - 6 + 7 + 89 = 98
	12 - 3 - 4 + 5 + 6 - 7 + 89 = 98
	1 - 2 - 3 + 4 + 5 + 6 + 78 + 9 = 98
	1 + 2 + 3 + 4 - 5 + 6 + 78 + 9 = 98
	12 + 3 + 4 - 5 + 67 + 8 + 9 = 98
	1 - 23 + 45 + 6 + 78 - 9 = 98
	1 + 23 + 4 - 5 + 6 + 78 - 9 = 98
	1 + 2 + 34 - 5 + 67 + 8 - 9 = 98
	123 - 4 - 5 - 6 + 7 - 8 - 9 = 98
99	1 - 2 - 3 - 4 + 5 + 6 + 7 + 89 = 99
	1 + 2 + 3 - 4 - 5 + 6 + 7 + 89 = 99
	1 + 2 - 3 + 4 + 5 - 6 + 7 + 89 = 99
	1 - 2 + 3 + 4 + 5 + 6 - 7 + 89 = 99
	1 - 23 + 45 - 6 - 7 + 89 = 99
	1 + 23 + 4 - 5 - 6 - 7 + 89 = 99
	12 + 3 - 4 - 5 + 6 + 78 + 9 = 99
	12 - 3 + 4 + 5 - 6 + 78 + 9 = 99
	1 + 2 + 3 + 4 + 5 + 67 + 8 + 9 = 99

	1 + 23 - 4 - 5 + 67 + 8 + 9 = 99
	12 + 3 + 4 + 56 + 7 + 8 + 9 = 99
	1 + 23 + 45 + 6 + 7 + 8 + 9 = 99
	1 - 2 + 34 + 56 - 7 + 8 + 9 = 99
	1 - 23 - 4 + 56 + 78 - 9 = 99
	12 + 3 + 4 + 5 + 6 + 78 - 9 = 99
	1 + 23 + 4 + 5 + 67 + 8 - 9 = 99
	1 + 2 + 34 + 56 + 7 + 8 - 9 = 99
100	123 - 45 - 67 + 89 = 100
	12 - 3 - 4 + 5 - 6 + 7 + 89 = 100
	12 + 3 + 4 + 5 - 6 - 7 + 89 = 100
	123 + 4 - 5 + 67 - 89 = 100
	1 + 2 + 3 - 4 + 5 + 6 + 78 + 9 = 100
	12 + 3 - 4 + 5 + 67 + 8 + 9 = 100
	1 + 23 - 4 + 56 + 7 + 8 + 9 = 100
	1 + 2 + 34 - 5 + 67 - 8 + 9 = 100
	1 + 23 - 4 + 5 + 6 + 78 - 9 = 100
	123 + 45 - 67 + 8 - 9 = 100
	123 - 4 - 5 - 6 - 7 + 8 - 9 = 100