

ESE5023 Assignment 01 Report

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1. Flowchart

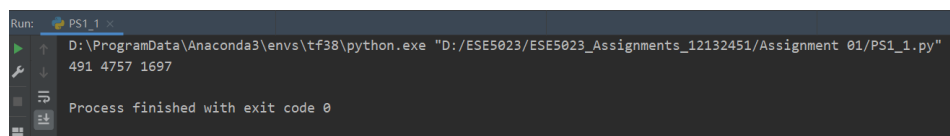
依照Flowchart的流程编写的 Print_values() 函数代码如下：

```
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：

```
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：



```
Run: PS1.1  
D:\ProgramData\Anaconda3\envs\tf38\python.exe "D:/ESE5023/ESE5023_Assignments_12132451/Assignment 01/PS1_1.py"  
491 4757 1697  
Process finished with exit code 0
```

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：



```
Run: PS1.1  
D:\ProgramData\Anaconda3\envs\tf38\python.exe "D:/ESE5023/ESE5023_Assignments_12132451/Assignment 01/PS1_1.py"  
6907 4101 7837  
c: 7837, a: 6907, b: 4101.  
Process finished with exit code 0
```

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

```
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

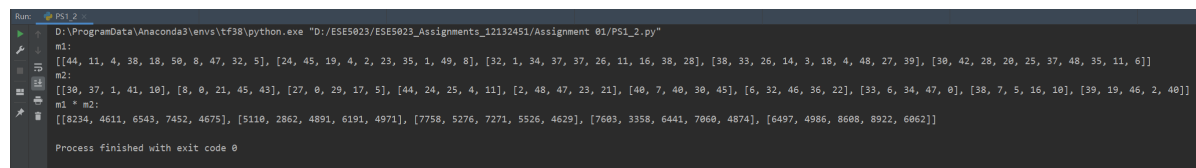
返回值 res_m 表示矩阵乘法结果

```
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：

```
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)
```

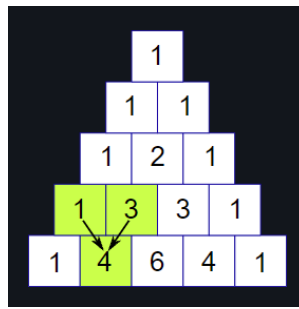
输出结果：



```
Run: PS1_2  
D:\ProgramData\Anaconda3\envs\tf38\python.exe "D:/ESE5023/ESE5023_Assignments_12132451/Assignment_01/PS1_2.py"  
m1:  
[[44, 11, 4, 38, 18, 50, 8, 47, 32, 5], [24, 45, 19, 4, 2, 23, 35, 1, 49, 8], [32, 1, 34, 37, 37, 26, 11, 16, 38, 28], [38, 33, 26, 14, 3, 18, 4, 48, 27, 39], [30, 42, 28, 20, 25, 37, 48, 35, 11, 6]]  
m2:  
[[30, 37, 1, 41, 10], [8, 0, 21, 45, 43], [27, 0, 29, 17, 5], [44, 24, 25, 4, 11], [2, 48, 47, 23, 21], [40, 7, 40, 30, 45], [6, 32, 46, 36, 22], [33, 6, 34, 47, 0], [38, 7, 5, 16, 10], [39, 19, 46, 2, 40]]  
m1 * m2:  
[[8234, 4611, 6543, 7452, 4675], [5110, 2862, 4891, 6191, 4971], [7758, 5276, 7271, 5526, 4629], [7603, 3358, 6441, 7060, 4874], [6497, 4986, 8608, 8922, 6062]]  
Process finished with exit code 0
```

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 ($i = 0, 1, 2, \dots, k-1$) , 据此可以编程如下:

```
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:

```
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, 132341572939212259328, 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, 132341572939212259328, 30664510802988208128, 6650134872937201664, 1345860629046814720, 253338471349988640, 44186942677323600, 7110542499799200, 1050421051106700, 141629804643600, 17310309456440, 1902231808400, 186087894300, 16007560800, 1192052400, 75287520, 3921225, 161700, 4950, 100, 1]

[1, 200, 19900, 1313400, 64684950, 2535650040, 82408626300, 2283896214600, 55098996177225, 1175445251780800, 22451004309013280, 387790074428411200, 6107693672247476224, 88326646952501968896, 1179791641436990603264, 14629416353818682064896, 169152626591028530380800, 1830828428985249944305664, 18613422361350041145180160, 178296993145563555639066624, 1613587787967350053120507904, 13830752468291571569743888384, 112532031446554153397992292352, 870900069455940880644377149440, 6422888012237563766053862899712, 45217131606152444949851522727936, 304346078118333797689320930279424, 1961341392318151060600519286325248, 12118287888251433513707365396905984, 71873983337215397498764782787887104, 409681705022127806325796224051970048, 2246641608185862016148155735769874432, 11865075993231584593662558759609696256, 60404023238269880911039860167426441216, 296690349435031465830776489456493920256, 1407159943034720642764925607563440947200, 6449483072242469788974257728465858985984, 28586897941831487582596621324591464185856, 122622746434698229668942625151349394767872, 509356023651823394717193704961225552560128, 2050157995198589208225174824287286478241792, 8000616566628640148325539209941458261901312, 30288048430808423241812392825438338434465792, 111290968652737932097215922473561480365080576, 397106410874542160499189341555090246361677824, 1376635557698412833627611385959557866526343168, 4638663292244651991067926961992643415606558720, 15199024404376094890761403441117062741807333376, 48446890288948804365777873810904739734565683200, 150284231100412596514190755775965894251921801216, 453858377923246020784798286718713168214607527936, 1334877582127194369672085348247230955428857774080, 3824937687249075759628017280835770793827393077248, 10680958070054022998402219447777898361312728055808, 29075941412924842620111633699223952267537234788352, 77183408114309581095067931230341190703536005971968, 199849896010265882773623986046135928965171358203904, 504883947815408489112431829208967255578157300842496, 1244800078234541712811491111260397434817115110506496, 2995959510327202110990842942099869638098939084275712, 7040504849268925027289880703180487294722859862065152, 16158535719633598031057038923225942770371693371195392, 36226394597243066939403747329949867054035362316812288, 79353054832056242373637921117000993700765864229339136, 169865132999870393332608176471736799801774280510799872, 355410124430498066175466668267462392285476843075665920, 726975254516927818162917962469896599802020980548698112, 1453950509033855636325835924939793199604041961097396224, 2843756142669158765564284196281450429145650041064521728, 5440229142497521264680529297642106674615420701066133504, 10181000252388218007032202654880995401212845169840226304, 18641268067753077447960628119013752805119545358023655424, 33398938621390929520176480257397071206840232281743818752, 58562522514219709947069713594060184697037337022343151616, 100505950801431127065359999172788131550533316673005420544, 168849997346404296083173376563091460403612957086628970496, 277713811425007063347289851630603652572997970462238572544, 447227436580530859785884225055010902669446056460366643200, 705243265376990897490421643405000799373903817659864055808, 1089109852860669460799197191559040227906869337895183843328,

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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：

```
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:

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

输出结果:

```
4
7
9
```

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：

```
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

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, 0]
    cnt = 0
    loop = True
    while loop:
        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

```

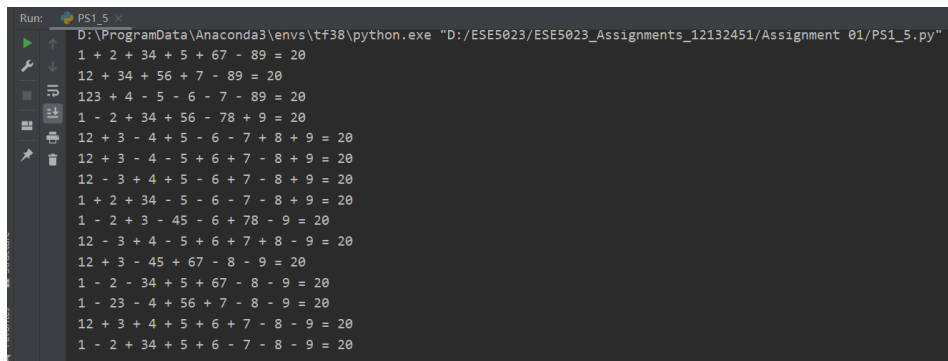
测试:

```

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:

```

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

1-100所有的 solutions 如下表所示：

目标数字	Solutions
1	$1 + 23 - 45 - 67 + 89 = 1$
	$1 - 23 - 4 + 5 - 67 + 89 = 1$
	$1 - 23 + 45 + 67 - 89 = 1$
	$1 + 23 + 4 - 5 + 67 - 89 = 1$
	$1 + 2 + 3 + 45 - 67 + 8 + 9 = 1$
	$12 + 34 + 5 - 67 + 8 + 9 = 1$
	$1 - 2 + 34 - 56 + 7 + 8 + 9 = 1$
	$12 - 34 + 5 - 6 + 7 + 8 + 9 = 1$
	$1 - 2 - 3 - 4 + 5 - 6 - 7 + 8 + 9 = 1$
	$1 + 2 + 3 - 4 - 5 - 6 - 7 + 8 + 9 = 1$
	$1 - 23 - 45 + 67 - 8 + 9 = 1$
	$1 - 23 + 4 + 5 + 6 + 7 - 8 + 9 = 1$
	$1 - 2 - 3 - 4 - 5 + 6 + 7 - 8 + 9 = 1$
	$1 + 2 - 3 + 4 - 5 - 6 + 7 - 8 + 9 = 1$
	$1 + 2 - 3 - 4 + 5 + 6 - 7 - 8 + 9 = 1$
	$1 - 2 + 3 + 4 - 5 + 6 - 7 - 8 + 9 = 1$
	$1 + 23 + 45 - 67 + 8 - 9 = 1$
	$1 + 2 - 3 - 4 + 5 - 6 + 7 + 8 - 9 = 1$
	$1 - 2 + 3 + 4 - 5 - 6 + 7 + 8 - 9 = 1$
	$1 - 2 + 3 - 4 + 5 + 6 - 7 + 8 - 9 = 1$
	$1 + 2 + 3 + 4 + 5 - 6 - 7 + 8 - 9 = 1$
	$1 + 23 - 4 - 5 - 6 - 7 + 8 - 9 = 1$
	$1 - 2 - 3 - 45 + 67 - 8 - 9 = 1$
	$1 - 2 - 3 + 4 + 5 + 6 + 7 - 8 - 9 = 1$
	$1 + 2 + 3 + 4 - 5 + 6 + 7 - 8 - 9 = 1$
	$1 + 2 - 34 + 56 - 7 - 8 - 9 = 1$
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	$1 + 2 - 3 + 4 - 5 - 67 + 89 = 21$
	$1 - 23 - 45 + 6 - 7 + 89 = 21$
	$1 + 2 - 3 - 4 - 5 + 6 + 7 + 8 + 9 = 21$
	$1 - 2 + 3 - 4 + 5 - 6 + 7 + 8 + 9 = 21$
	$1 - 2 - 3 + 4 + 5 + 6 - 7 + 8 + 9 = 21$
	$1 + 2 + 3 + 4 - 5 + 6 - 7 + 8 + 9 = 21$
	$1 + 2 + 3 - 4 + 5 + 6 + 7 - 8 + 9 = 21$
	$1 + 23 + 4 + 5 - 6 - 7 - 8 + 9 = 21$
	$123 - 4 - 5 - 6 - 78 - 9 = 21$
	$1 + 2 - 3 - 45 + 67 + 8 - 9 = 21$
	$1 + 2 - 3 + 4 + 5 + 6 + 7 + 8 - 9 = 21$
	$1 - 23 + 45 + 6 - 7 + 8 - 9 = 21$
	$1 + 23 + 4 - 5 + 6 - 7 + 8 - 9 = 21$
	$1 + 23 - 4 + 5 + 6 + 7 - 8 - 9 = 21$
	$1 + 2 + 3 + 45 - 6 - 7 - 8 - 9 = 21$
	$12 + 34 + 5 - 6 - 7 - 8 - 9 = 21$
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65	$1 - 23 + 4 - 5 + 6 - 7 + 89 = 65$

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66	$12 - 34 - 5 + 6 + 78 + 9 = 66$
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67	$1 - 23 - 4 + 5 + 6 - 7 + 89 = 67$

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68	$1 + 23 + 4 - 56 + 7 + 89 = 68$
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74	$1 + 234 - 5 - 67 - 89 = 74$
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	$1 + 2 - 3 + 4 - 5 + 6 + 78 - 9 = 74$
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76	$12 - 3 - 4 - 5 - 6 - 7 + 89 = 76$

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77	$1 + 2 + 34 - 56 + 7 + 89 = 77$
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	$12 + 3 + 4 - 5 - 6 + 78 - 9 = 77$
	$1 - 2 + 3 + 4 + 5 + 67 + 8 - 9 = 77$
78	$123 + 4 - 56 + 7 + 8 - 9 = 77$
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79	$1 - 23 + 4 - 5 + 6 + 7 + 89 = 79$
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	$1 - 2 + 34 + 56 + 7 - 8 - 9 = 79$
80	$123 + 45 - 6 + 7 - 89 = 80$
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81	$1 + 23 - 45 + 6 + 7 + 89 = 81$
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82	$12 + 3 + 45 - 67 + 89 = 82$
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84	$12 - 3 + 4 - 5 - 6 - 7 + 89 = 84$
	$1 + 234 + 5 - 67 - 89 = 84$
	$1 + 2 - 3 - 4 - 5 + 6 + 78 + 9 = 84$
	$1 - 2 + 3 - 4 + 5 - 6 + 78 + 9 = 84$
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	$12 - 3 + 45 + 6 + 7 + 8 + 9 = 84$
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	$1 + 23 - 4 + 56 + 7 - 8 + 9 = 84$
	$1 + 2 - 3 + 4 + 5 + 6 + 78 - 9 = 84$
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	$123 + 45 - 67 - 8 - 9 = 84$
	$123 - 4 - 5 - 6 - 7 - 8 - 9 = 84$
85	$12 - 34 + 5 + 6 + 7 + 89 = 85$
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86	$12 + 34 - 56 + 7 + 89 = 86$
	$12 - 3 - 4 + 5 - 6 - 7 + 89 = 86$
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	$1 - 2 + 3 + 4 + 5 + 6 + 78 - 9 = 86$
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	$1 + 23 + 4 - 5 - 6 + 78 - 9 = 86$
87	$1 - 2 - 3 - 4 + 5 - 6 + 7 + 89 = 87$
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	$12 + 3 + 4 + 5 - 6 + 78 - 9 = 87$
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88	$12 - 3 - 4 - 5 + 6 - 7 + 89 = 88$
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	$123 - 4 + 56 - 78 - 9 = 88$

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

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	$12 + 3 - 4 + 5 - 6 - 7 + 89 = 92$
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92	$123 + 45 + 6 + 7 - 89 = 92$
	$1 + 2 - 3 + 4 - 5 + 6 + 78 + 9 = 92$
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93	$1 + 2 + 3 + 4 - 5 + 6 - 7 + 89 = 93$
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97		$1 - 2 - 3 + 4 - 5 + 6 + 7 + 89 = 97$
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98		$12 - 3 - 4 + 5 + 6 - 7 + 89 = 98$
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99		$1 - 2 - 3 - 4 + 5 + 6 + 7 + 89 = 99$
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100	$123 - 45 - 67 + 89 = 100$
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