

**RUNNING AGAINST MY OWN MSDSCRIPT (to test):**

samanthapope@Samanthas-MacBook-Pro-2 msdScript % ./test\_msdscrip msdscrip msdscrip

Testing expression: t

Testing expression: 66

Testing expression: let q = m in b

Testing expression: let v = 35 in 73 + 76 + let i = 38 in 20

Testing expression: let y = b in 6 + let m = 25 + 87 in 90 + 95

Testing expression: a

Testing expression: d

Testing expression: let u = 78 in 39 + let f = 49 in 7 + 40

Testing expression: let m = 89 + 68 in c + let b = v in 30 + 3

Testing expression: 25

Testing expression: 40 + 55 + r + 71

Testing expression: 6

Testing expression: 96

Testing expression: 60

Testing expression: t

Testing expression: k + let t = 80 + 42 in u

Testing expression: 83

Testing expression: k

Testing expression: let m = t + 40 in 44 + let c = 0 in 13

Testing expression: m + m + w

Testing expression: 60 + 62

Testing expression: let g = y in 69

Testing expression: z

Testing expression: 85 + 78

Testing expression: let r = 14 in 79

Testing expression: 27 + let z = 17 in 36 + 66

Testing expression: 56

Testing expression: d

Testing expression: t + j + i

Testing expression: e

Testing expression: 53

Testing expression: let u = 0 in let s = r in 82 + 40

Testing expression: 17

Testing expression: x

Testing expression: 94

Testing expression: 13 + 55 + let i = 24 in 32

Testing expression: g

Testing expression: y

Testing expression: a

Testing expression: let b = let r = 65 + 60 in 6 in let z = 16 in 69 + 50 + 87

Testing expression: let y = 44 in let k = 44 in 15 + 39 + 95 + let o = 37 in 13

Testing expression: let r = let t = 83 in 94 in 79 + 37  
Testing expression: 12 + 58 + b + 54  
Testing expression: 90  
Testing expression: 19  
Testing expression: 2  
Testing expression: 3  
Testing expression: 10  
Testing expression: 15  
Testing expression: 27  
Testing expression: 63  
Testing expression: 45  
Testing expression: j  
Testing expression: 99  
Testing expression: let l = 18 in 78  
Testing expression: 42  
Testing expression: 52 + let t = 4 in let n = 51 in 3  
Testing expression: u  
Testing expression: c  
Testing expression: let l = 71 + b in 94 + 96 + 20  
Testing expression: 58 + 85  
Testing expression: 34 + s  
Testing expression: 23 + let x = 7 in 56 + 91  
Testing expression: let r = 49 in 20 + 82  
Testing expression: let y = 73 in 34 + 67 + let g = c in 0  
Testing expression: e  
Testing expression: 13 + 2 + let c = 38 in 59 + let k = 4 in 58 + 75  
Testing expression: 80 + let w = 21 in 3 + let t = 85 in let b = 57 in 27  
Testing expression: o  
Testing expression: let g = 15 in o + p  
Testing expression: let q = let l = 1 in m in e  
Testing expression: m  
Testing expression: 69 + let p = 63 + 21 in 30  
Testing expression: let w = j in 91 + 44 + f  
Testing expression: 73 + v  
Testing expression: y  
Testing expression: b  
Testing expression: 55  
Testing expression: 94  
Testing expression: let b = e in let u = 4 in let l = 33 in 99  
Testing expression: 71 + let w = 46 in 84 + 9  
Testing expression: c + 50 + y  
Testing expression: f  
Testing expression: n  
Testing expression: 78

Testing expression: let d = n in 69

Testing expression: let q = let k = 60 in 68 + let m = 85 in 46 in let r = 65 in 95

Testing expression: o

Testing expression: m

Testing expression: 33

Testing expression: let v = let d = v in let d = 49 in 90 in 48

Testing expression: let z = 63 in 58 + h

Testing expression: v

Testing expression: c

Testing expression: let b = 53 + 67 + 50 in 73

Testing expression: a

Testing expression: 82

Testing expression: let j = l in p

Testing expression: let t = a in let v = 60 in 27 + let e = 40 + 99 in 45 + 46

Testing expression: let d = let x = 68 in 17 in 24 + 13 + let y = 0 in 11 + 77

**RUNNING AGAINST MSDSCRIPT1:**

```
samanthapope@Samanthas-MacBook-Pro-2 msdScript % ./test_msdscrip msdscrip1
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Testing expression:  $x + v$

Testing expression:  $\text{let } z = 97 \text{ in } 27 + 67 + 45 + 19$

Mismatch found!

Expression:  $\text{let } z = 97 \text{ in } 27 + 67 + 45 + 19$

Result1: 158

Result2:

Testing expression:  $w$

Testing expression:  $49 + 53$

Mismatch found!

Expression:  $49 + 53$

Result1: 102

Result2:

Testing expression:  $w$

Testing expression: 97

Mismatch found!

Expression: 97

Result1: 97

Result2:

Testing expression:  $u + 16 + g$

Testing expression: 90

Mismatch found!

Expression: 90

Result1: 90

Result2:

Testing expression:  $y + o$

Testing expression:  $x$

Testing expression:  $\text{let } v = 52 + 89 + 14 \text{ in let } w = \text{let } y = 81 \text{ in } 41 \text{ in } g$

Testing expression: 71

Mismatch found!

Expression: 71

Result1: 71

Result2:

Testing expression:  $m + y + 30 + 90$

Mismatch found!

Expression:  $m + y + 30 + 90$

Result1:

Result2: 4337

Testing expression: w

Testing expression: 34

Mismatch found!

Expression: 34

Result1: 34

Result2:

Testing expression: 95 + let m = let q = 81 in 98 in let n = 13 in 58

Testing expression: t + x + let p = 50 in 6

Testing expression: k + 53 + 22

Testing expression: x

Testing expression: let y = let n = 54 in 65 + 73 + 61 in 67

Mismatch found!

Expression: let y = let n = 54 in 65 + 73 + 61 in 67

Result1: 67

Result2:

Testing expression: r

Testing expression: 82

Mismatch found!

Expression: 82

Result1: 82

Result2:

Testing expression: 57

Mismatch found!

Expression: 57

Result1: 57

Result2:

Testing expression: let s = 2 + 89 + 79 in 89

Mismatch found!

Expression: let s = 2 + 89 + 79 in 89

Result1: 89

Result2:

Testing expression: 11 + 50

Mismatch found!

Expression: 11 + 50

Result1: 61

Result2:

Testing expression: let b = p in let a = 5 in 46 + let g = n in 33 + 14

Testing expression: 73

Mismatch found!

Expression: 73

Result1: 73

Result2:

Testing expression: 31

Mismatch found!

Expression: 31

Result1: 31

Result2:

Testing expression: 25

Mismatch found!

Expression: 25

Result1: 25

Result2:

Testing expression: x

Testing expression: g

Testing expression: 72

Mismatch found!

Expression: 72

Result1: 72

Result2:

Testing expression: c + let k = g in let d = 86 in 68

Testing expression: 56

Mismatch found!

Expression: 56

Result1: 56

Result2:

Testing expression: z + k + 5 + 6

Testing expression: let a = 87 in let s = let h = 0 in 0 in a

Mismatch found!

Expression: let a = 87 in let s = let h = 0 in 0 in a

Result1: 87

Result2:

Testing expression: let i = 1 in 12 + 50 + 98

Mismatch found!

Expression: let i = 1 in 12 + 50 + 98

Result1: 160

Result2:

Testing expression:  $28 + 18 + 45 + 55$

Mismatch found!

Expression:  $28 + 18 + 45 + 55$

Result1: 146

Result2: 4585

Testing expression: 17

Mismatch found!

Expression: 17

Result1: 17

Result2:

Testing expression: 67

Mismatch found!

Expression: 67

Result1: 67

Result2:

Testing expression: let  $n = 54$  in let  $t = m$  in let  $g = 0$  in 15

Testing expression: 88

Mismatch found!

Expression: 88

Result1: 88

Result2:

Testing expression: 85

Mismatch found!

Expression: 85

Result1: 85

Result2:

Testing expression: 4

Mismatch found!

Expression: 4

Result1: 4

Result2:

Testing expression: let  $x = 87 + 87 + 25$  in  $u$

Testing expression: let  $b = 87 + 90 + 31$  in  $m$

Testing expression:  $y + \text{let } w = v \text{ in } 41 + 70$

Testing expression: 79

Mismatch found!

Expression: 79

Result1: 79

Result2:

Testing expression: w

Testing expression:  $31 + 46 + d + f + 79 + 86$

Testing expression:  $\text{let } q = \text{let } r = 81 + 37 \text{ in } 78 \text{ in } z + 9$

Testing expression:  $94 + a$

Testing expression:  $57 + d$

Testing expression: 72

Mismatch found!

Expression: 72

Result1: 72

Result2:

Testing expression: d

Testing expression:  $g + \text{let } a = i \text{ in } d$

Testing expression: 89

Mismatch found!

Expression: 89

Result1: 89

Result2:

Testing expression: i

Testing expression:  $\text{let } h = \text{let } f = 58 \text{ in } 30 \text{ in } 18 + 40 + d$

Testing expression: t

Testing expression:  $\text{let } z = 74 \text{ in } \text{let } l = 20 \text{ in } 39 + 72$

Mismatch found!

Expression:  $\text{let } z = 74 \text{ in } \text{let } l = 20 \text{ in } 39 + 72$

Result1: 111

Result2:

Testing expression:  $z + y$

Testing expression: t

Testing expression:  $m + 18$

Testing expression: 82

Mismatch found!

Expression: 82

Result1: 82

Result2:

Testing expression: 51



Mismatch found!

Expression: 51

Result1: 51

Result2:

Testing expression: 51

Mismatch found!

Expression: 51

Result1: 51

Result2:

Testing expression: let r = 53 in 96

Mismatch found!

Expression: let r = 53 in 96

Result1: 96

Result2:

Testing expression: 8

Mismatch found!

Expression: 8

Result1: 8

Result2:

Testing expression: z

Testing expression: let v = let b = l in q in i

Testing expression: d + g + let v = 66 + 15 in 50 + 63

Testing expression: a

Testing expression: 83 + 75 + let b = 86 in 71 + 37

Testing expression: 22

Mismatch found!

Expression: 22

Result1: 22

Result2:

Testing expression: o

Testing expression: let v = 68 in o + 46

Testing expression: 1 + 58 + 69 + let e = 56 in 43 + 63

Testing expression: o

Testing expression: let c = c + 66 in z

Testing expression: let s = 34 in 21 + let b = 45 in 11 + p

Testing expression: let m = 82 + 4 in 2 + 66

Mismatch found!

Expression: let m = 82 + 4 in 2 + 66

Result1: 68

Result2:

Testing expression:  $p + \text{let } c = \text{let } q = 44 \text{ in } 79 \text{ in } h$

Testing expression:  $y$

Testing expression: 37

Mismatch found!

Expression: 37

Result1: 37

Result2:

Testing expression:  $u + b + 61$

Testing expression:  $\text{let } p = 80 \text{ in } 45 + 76 + 10 + \text{let } d = \text{let } n = 77 \text{ in } 30 \text{ in } 60 + 68$

Testing expression: 16

Mismatch found!

Expression: 16

Result1: 16

Result2:

Testing expression:  $t$

Testing expression:  $\text{let } o = \text{let } b = g \text{ in } \text{let } p = 86 \text{ in } 7 \text{ in } \text{let } i = \text{let } f = 1 \text{ in } 90 \text{ in } \text{let } l = 68 \text{ in } 59$

Testing expression:  $4 + 12 + 27 + 69$

Mismatch found!

Expression:  $4 + 12 + 27 + 69$

Result1: 112

Result2: 4206

Testing expression:  $\text{let } j = \text{let } h = \text{let } c = 47 \text{ in } 64 \text{ in } 37 \text{ in } \text{let } m = 88 + 56 \text{ in } \text{let } c = 98 \text{ in } 64$

Mismatch found!

Expression:  $\text{let } j = \text{let } h = \text{let } c = 47 \text{ in } 64 \text{ in } 37 \text{ in } \text{let } m = 88 + 56 \text{ in } \text{let } c = 98 \text{ in } 64$

Result1: 64

Result2:

Testing expression:  $u$

Testing expression:  $h$

Testing expression: 27

Mismatch found!

Expression: 27

Result1: 27

Result2:

Testing expression:  $30 + 8 + 80 + 30$

Mismatch found!

Expression:  $30 + 8 + 80 + 30$

Result1: 148

Result2: 4485

Testing expression: let o = b in 25

Testing expression: t + 48

Testing expression: let z = 90 in u

Testing expression: f

**RUNNING AGAINST MSDSCRIPT0:**

samanthapope@Samanthas-MacBook-Pro-2 msdScript % ./test\_msdscript msdscript  
msdscript0

Testing expression: let s = 2 + 1 + 88 + 21 in let q = 48 in c

Testing expression: 58

Mismatch found!

Expression: 58

Result1: 58

Result2:

Testing expression: let h = 87 + 45 + 80 + 44 in g + 26 + 55

Testing expression: b + let c = 63 + 92 in 29

Testing expression: 76

Mismatch found!

Expression: 76

Result1: 76

Result2:

Testing expression: 14 + let v = let i = 15 in 61 in 36 + 42

Testing expression: 13

Mismatch found!

Expression: 13

Result1: 13

Result2:

Testing expression: 98

Mismatch found!

Expression: 98

Result1: 98

Result2:

Testing expression: 42 + 74 + y + 49

Testing expression: 50 + let x = 63 in 85 + 40

Testing expression: 51 + let y = v in g

Testing expression: let g = 14 + let u = 78 in 71 in 40 + 74 + h

Testing expression: let n = 76 in p

Testing expression: let l = 99 in 61 + 11 + 73 + 31

Mismatch found!

Expression: let l = 99 in 61 + 11 + 73 + 31

Result1: 176

Result2:

Testing expression: b

Testing expression: f  
Testing expression: m  
Testing expression: 26  
Mismatch found!  
Expression: 26  
Result1: 26

Result2:  
Testing expression: 74  
Mismatch found!  
Expression: 74  
Result1: 74

Result2:  
Testing expression:  $77 + \text{let } j = 39 + 26 \text{ in let } k = 0 \text{ in } 76$   
Testing expression: m  
Testing expression: 38  
Mismatch found!  
Expression: 38  
Result1: 38

Result2:  
Testing expression:  $44 + 78 + 28 + 42 + 5 + 78 + 85$   
Mismatch found!  
Expression:  $44 + 78 + 28 + 42 + 5 + 78 + 85$   
Result1: 360

Result2:  
Testing expression: b  
Testing expression:  $\text{let } w = 41 \text{ in let } q = 90 \text{ in } 6 + 7$   
Mismatch found!  
Expression:  $\text{let } w = 41 \text{ in let } q = 90 \text{ in } 6 + 7$   
Result1: 13

Result2:  
Testing expression: 74  
Mismatch found!  
Expression: 74  
Result1: 74

Result2:  
Testing expression: 12  
Mismatch found!  
Expression: 12

Result1: 12

Result2:

Testing expression: let a = let v = p in l in 66 + 17 + s

Testing expression: let x = h in t

Testing expression: 79

Mismatch found!

Expression: 79

Result1: 79

Result2:

Testing expression: 75

Mismatch found!

Expression: 75

Result1: 75

Result2:

Testing expression: b

Testing expression: let h = v in let m = let a = 76 in 54 in c

Testing expression: o

Testing expression: 75 + 54

Mismatch found!

Expression: 75 + 54

Result1: 129

Result2:

Testing expression: s + 76 + 28 + let k = 2 in 36 + let v = 81 in 97

Testing expression: let q = 69 in d + let n = t in 58

Testing expression: a

Testing expression: r

Testing expression: p + 49

Testing expression: let i = 19 in 0 + 89 + 92 + 42

Mismatch found!

Expression: let i = 19 in 0 + 89 + 92 + 42

Result1: 223

Result2:

Testing expression: k

Testing expression: o

Testing expression: n

Testing expression: let m = 42 + 76 + 34 in z

Testing expression: b

Testing expression: 57

Mismatch found!

Expression: 57

Result1: 57

Result2:

Testing expression:  $30 + \text{let } i = 93 \text{ in } 81$

Testing expression: 40

Mismatch found!

Expression: 40

Result1: 40

Result2:

Testing expression:  $81 + 59 + 30 + 92 + 18$

Mismatch found!

Expression:  $81 + 59 + 30 + 92 + 18$

Result1: 280

Result2:

Testing expression: 55

Mismatch found!

Expression: 55

Result1: 55

Result2:

Testing expression:  $\text{let } a = 54 \text{ in let } j = 16 + 39 \text{ in } 77 + 26$

Mismatch found!

Expression:  $\text{let } a = 54 \text{ in let } j = 16 + 39 \text{ in } 77 + 26$

Result1: 103

Result2:

Testing expression:  $\text{let } f = \text{let } z = 44 \text{ in } 5 + 61 \text{ in } k$

Testing expression:  $\text{let } i = \text{let } r = 74 + 15 \text{ in } 98 \text{ in } f$

Testing expression:  $z$

Testing expression:  $28 + c + 27$

Testing expression:  $\text{let } y = 82 + 83 \text{ in } 59$

Mismatch found!

Expression:  $\text{let } y = 82 + 83 \text{ in } 59$

Result1: 59

Result2:

Testing expression:  $y + 56$

Testing expression: 25

Mismatch found!

Expression: 25

Result1: 25

Result2:

Testing expression:  $62 + j$

Testing expression:  $l$

Testing expression:  $b$

Testing expression:  $q$

Testing expression: 72

Mismatch found!

Expression: 72

Result1: 72

Result2:

Testing expression: 72

Mismatch found!

Expression: 72

Result1: 72

Result2:

Testing expression:  $j$

Testing expression:  $v + 47$

Testing expression:  $h$

Testing expression:  $l$

Testing expression:  $\text{let } g = 68 + 36 \text{ in } 9 + 21 + 44 + w$

Testing expression:  $54 + p$

Testing expression:  $35 + 87$

Mismatch found!

Expression:  $35 + 87$

Result1: 122

Result2:

Testing expression:  $12 + 30$

Mismatch found!

Expression:  $12 + 30$

Result1: 42

Result2:

Testing expression:  $\text{let } k = 21 + f \text{ in } 19 + 24 + 22$

Testing expression:  $f$

Testing expression:  $y$

Testing expression:  $n$

Testing expression: 10

Mismatch found!

Expression: 10

Result1: 10



Result2:

Testing expression:  $y + \text{let } m = 67 \text{ in } 4 + 66$

Testing expression: 65

Mismatch found!

Expression: 65

Result1: 65

Result2:

Testing expression:  $\text{let } f = 44 \text{ in } 93 + b + r + 73 + 64$

Testing expression:  $t$

Testing expression: 89

Mismatch found!

Expression: 89

Result1: 89

Result2:

Testing expression:  $\text{let } d = 88 \text{ in } 18 + 80 + 81 + 61 + 55$

Mismatch found!

Expression:  $\text{let } d = 88 \text{ in } 18 + 80 + 81 + 61 + 55$

Result1: 295

Result2:

Testing expression:  $\text{let } b = 44 \text{ in } 85 + 59 + 52$

Mismatch found!

Expression:  $\text{let } b = 44 \text{ in } 85 + 59 + 52$

Result1: 196

Result2:

Testing expression:  $q$

Testing expression: 54

Mismatch found!

Expression: 54

Result1: 54

Result2:

Testing expression:  $j + y + i$

Testing expression:  $90 + 84 + 59 + n$

Testing expression: 87

Mismatch found!

Expression: 87

Result1: 87

Result2:

Testing expression: c  
Testing expression: 40  
Mismatch found!  
Expression: 40  
Result1: 40

Result2:  
Testing expression: 45  
Mismatch found!  
Expression: 45  
Result1: 45

Result2:  
Testing expression: let p = 43 in 17 + s + l  
Testing expression: let z = let n = 19 in 19 + 5 in 25  
Mismatch found!  
Expression: let z = let n = 19 in 19 + 5 in 25  
Result1: 25

Result2:  
Testing expression: k + g + t  
Testing expression: m  
Testing expression: w  
Testing expression: let n = 35 + 91 in let e = 35 in 32 + 44 + 86 + 33  
Mismatch found!  
Expression: let n = 35 + 91 in let e = 35 in 32 + 44 + 86 + 33  
Result1: 195

Result2:  
Testing expression: j