Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 7
repeat 6 times
  print the number
  + add 6
```

OUTPUT

7 | 13 | 19 | 25 | 32 | 37

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 64
repeat 6 times
  print the number
  - subtract 8
```

OUTPUT

64 | 56 | 47 | 40 | 32 | 24

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 3
repeat 5 times
  print the number
  × multiply by 2
```

OUTPUT

3 | 6 | 12 | 42 | 48

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 50
repeat 6 times
  print the number
  - subtract 4
```

OUTPUT

50 | 45 | 40 | 35 | 30 | 25

◀ **Look at the code, circle the bug and explain how to fix it.**

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 44
repeat 5 times
  print the number
  + add 4
```

OUTPUT

44 48 42 56 60

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 1
repeat 4 times
  print the number
  × multiply by 3
```

OUTPUT

1 2 9 27

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 89
repeat 5 times
  print the number
  - subtract 20
```

OUTPUT

89 69 50 29 9

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 175
repeat 5 times
  print the number
  - subtract 19
```

OUTPUT

175 155 135 115 95

Look at the code, circle the bug and explain how to fix it.

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 27
repeat 4 times
  print the number
  ÷ divide by 3
```

OUTPUT

27 9 5 1

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 4
repeat 4 times
  print the number
  × multiply by 2
```

OUTPUT

4 18 16 32

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 60
repeat 6 times
  print the number
  + add 5
```

OUTPUT

60 55 70 75 80 85

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 7
repeat 5 times
  print the number
  - subtract 12
```

OUTPUT

7 19 31 43 55

Look at the code, circle the bug and explain how to fix it.

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 1
repeat 6 times
  print the number
  × multiply by 2
```

OUTPUT

1 | 2 | 4 | 8 | 6 | 32

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 80
repeat 5 times
  print the number
  ÷ divide by 2
```

OUTPUT

80 | 40 | 30 | 10 | 5

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 129
repeat 7 times
  print the number
  - subtract 12
```

OUTPUT

129 | 117 | 105 | 92 | 81 | 69 | 57

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 74
repeat 7 times
  print the number
  - subtract 8
```

OUTPUT

74 | 67 | 60 | 53 | 46 | 39 | 32

◀ **Look at the code, circle the bug and explain how to fix it.**

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 68
repeat 6 times
  print the number
  - subtract 9
```

OUTPUT

68 59 50 41 32 13

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 31
repeat 5 times
  print the number
  - subtract 5
```

OUTPUT

31 26 21 6 11

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 26
repeat 6 times
  print the number
  + add 3
```

OUTPUT

26 29 32 35 28 41

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 63
repeat 6 times
  print the number
  - subtract 9
```

OUTPUT

63 53 43 33 23 13

Look at the code, circle the bug and explain how to fix it.

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 23
repeat 6 times
  print the number
  + add 6
```

OUTPUT

23 29 35 41 48 53

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 35
repeat 6 times
  print the number
  - subtract 2
```

OUTPUT

35 32 31 29 27 25

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 9
repeat 5 times
  print the number
  + add 5
```

OUTPUT

9 12 19 24 29

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 52
repeat 5 times
  print the number
  - subtract 9
```

OUTPUT

52 42 32 22 12

Look at the code, circle the bug and explain how to fix it.

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 122
repeat 6 times
  print the number
  + add 16
```

OUTPUT

122 138 154 170 196 202

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 351
repeat 6 times
  print the number
  + add 125
```

OUTPUT

351 476 601 762 851 976

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 315
repeat 7 times
  print the number
  - subtract 14
```

OUTPUT

315 301 287 273 258 245 231

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 280
repeat 5 times
  print the number
  + add 24
```

OUTPUT

280 256 232 208 184

Look at the code, circle the bug and explain how to fix it.

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 206
repeat 5 times
  print the number
  - subtract 25
```

OUTPUT

206 181 156 121 106

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 152
repeat 6 times
  print the number
  + add 18
```

OUTPUT

152 160 188 206 224 242

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 234
repeat 6 times
  print the number
  - subtract 21
```

OUTPUT

234 213 182 171 150 129

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 179
repeat 7 times
  print the number
  + add 109
```

OUTPUT

179 278 377 476 575 674 773

Look at the code, circle the bug and explain how to fix it.

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 7
repeat 6 times
  print the number
  + add 6
```

OUTPUT

7	13	19	25	32	37

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 64
repeat 6 times
  print the number
  - subtract 8
```

OUTPUT

64	56	47	40	32	24

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 3
repeat 5 times
  print the number
  × multiply by 2
```

OUTPUT

3	6	12	42	48

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 50
repeat 6 times
  print the number
  - subtract 4
```

OUTPUT

50	45	40	35	30	25

◀ **Look at the code, circle the bug and explain how to fix it.**

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 44
repeat 5 times
  print the number
  + add 4
```

OUTPUT

44 48 42 56 60

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 1
repeat 4 times
  print the number
  × multiply by 3
```

OUTPUT

1 2 9 27

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 89
repeat 5 times
  print the number
  - subtract 20
```

OUTPUT

89 69 50 29 9

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 175
repeat 5 times
  print the number
  - subtract 19
```

OUTPUT

175 155 135 115 95

◀ **Look at the code, circle the bug and explain how to fix it.**

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CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 27
repeat 4 times
  print the number
  ÷ divide by 3
```

OUTPUT

27 9 5 1

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 4
repeat 4 times
  print the number
  × multiply by 2
```

OUTPUT

4 18 16 32

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 60
repeat 6 times
  print the number
  + add 5
```

OUTPUT

60 55 70 75 80 85

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 7
repeat 5 times
  print the number
  - subtract 12
```

OUTPUT

7 19 31 43 55

◀ **Look at the code, circle the bug and explain how to fix it.**

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 1
repeat 6 times
  print the number
  × multiply by 2
```

OUTPUT

1 | 2 | 4 | 8 | 6 | 32

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 80
repeat 5 times
  print the number
  ÷ divide by 2
```

OUTPUT

80 | 40 | 30 | 10 | 5

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 129
repeat 7 times
  print the number
  - subtract 12
```

OUTPUT

129 | 117 | 105 | 92 | 81 | 69 | 57

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 74
repeat 7 times
  print the number
  - subtract 8
```

OUTPUT

74 | 67 | 60 | 53 | 46 | 39 | 32

◀ **Look at the code, circle the bug and explain how to fix it.**

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 68
repeat 6 times
  print the number
  - subtract 9
```

OUTPUT

68 59 50 41 32 13

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 31
repeat 5 times
  print the number
  - subtract 5
```

OUTPUT

31 26 21 6 11

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 26
repeat 6 times
  print the number
  + add 3
```

OUTPUT

26 29 32 35 28 41

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 63
repeat 6 times
  print the number
  - subtract 9
```

OUTPUT

63 53 43 33 23 13

◀ **Look at the code, circle the bug and explain how to fix it.**

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 23
repeat 6 times
  print the number
  + add 6
```

OUTPUT

23 29 35 41 48 53

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 35
repeat 6 times
  print the number
  - subtract 2
```

OUTPUT

35 32 31 29 27 25

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 9
repeat 5 times
  print the number
  + add 5
```

OUTPUT

9 12 19 24 29

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 52
repeat 5 times
  print the number
  - subtract 9
```

OUTPUT

52 42 32 22 12

◀ **Look at the code, circle the bug and explain how to fix it.**

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 122
repeat 6 times
  print the number
  + add 16
```

OUTPUT

122 138 154 170 196 202

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 351
repeat 6 times
  print the number
  + add 125
```

OUTPUT

351 476 601 762 851 976

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 315
repeat 7 times
  print the number
  - subtract 14
```

OUTPUT

315 301 287 273 258 245 231

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 280
repeat 5 times
  print the number
  + add 24
```

OUTPUT

280 256 232 208 184

◀ **Look at the code, circle the bug and explain how to fix it.**

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Name _____ Date _____

CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 206
repeat 5 times
  print the number
  - subtract 25
```

OUTPUT

206 181 156 121 106

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 2 // the code is right. Is the output?

```
start at 152
repeat 6 times
  print the number
  + add 18
```

OUTPUT

152 160 188 206 224 242

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 3 // the code is right. Is the output?

```
start at 234
repeat 6 times
  print the number
  - subtract 21
```

OUTPUT

234 213 182 171 150 129

Circle the incorrect number. Fix it: _____

What went wrong? _____

PROGRAM 4 // this is the output the programmer wanted

```
start at 179
repeat 7 times
  print the number
  + add 109
```

OUTPUT

179 278 377 476 575 674 773

◀ **Look at the code, circle the bug and explain how to fix it.**

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CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 7
repeat 6 times
  print the number
  + add 6
```

OUTPUT

7 | 13 | 19 | 25 | 32 | 37

Circle the incorrect number. Fix it: 31

What went wrong? *It added 7, not 6.*

PROGRAM 2 // the code is right. Is the output?

```
start at 64
repeat 6 times
  print the number
  - subtract 8
```

OUTPUT

64 | 56 | 47 | 40 | 32 | 24

Circle the incorrect number. Fix it: 48

What went wrong? *It subtracted 9, not 8.*

PROGRAM 3 // the code is right. Is the output?

```
start at 3
repeat 5 times
  print the number
  × multiply by 2
```

OUTPUT

3 | 6 | 12 | 42 | 48

Circle the incorrect number. Fix it: 24

What went wrong? *The digits of 24 got swapped.*

PROGRAM 4 // this is the output the programmer wanted

```
start at 50
repeat 6 times
  print the number
  - subtract 4
```

OUTPUT

50 | 45 | 40 | 35 | 30 | 25

◀ **Look at the code, circle the bug and explain how to fix it.**

Change "subtract 4" to "subtract 5".

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CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 44
repeat 5 times
  print the number
  + add 4
```

OUTPUT: 44 | 48 | 42 | 56 | 60

Circle the incorrect number. Fix it: 52

What went wrong? 48 + 4 = 52, not 42.

PROGRAM 2 // the code is right. Is the output?

```
start at 1
repeat 4 times
  print the number
  × multiply by 3
```

OUTPUT: 1 | 2 | 9 | 27

Circle the incorrect number. Fix it: 3

What went wrong? It multiplied by 2, not 3.

PROGRAM 3 // the code is right. Is the output?

```
start at 89
repeat 5 times
  print the number
  - subtract 20
```

OUTPUT: 89 | 69 | 50 | 29 | 9

Circle the incorrect number. Fix it: 49

What went wrong? It subtracted 19, not 20.

PROGRAM 4 // this is the output the programmer wanted

```
start at 175
repeat 5 times
  print the number
  - subtract 19
```

OUTPUT: 175 | 155 | 135 | 115 | 95

◀ **Look at the code, circle the bug and explain how to fix it.**

Change "subtract 19" to "subtract 20".

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CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 27
repeat 4 times
  print the number
  ÷ divide by 3
```

OUTPUT: 27 | 9 | 5 | 1

Circle the incorrect number. Fix it: 3

What went wrong? 9 ÷ 3 = 3, not 5.

PROGRAM 2 // the code is right. Is the output?

```
start at 4
repeat 4 times
  print the number
  × multiply by 2
```

OUTPUT: 4 | 18 | 16 | 32

Circle the incorrect number. Fix it: 8

What went wrong? 4 × 2 = 8, not 18.

PROGRAM 3 // the code is right. Is the output?

```
start at 60
repeat 6 times
  print the number
  + add 5
```

OUTPUT: 60 | 55 | 70 | 75 | 80 | 85

Circle the incorrect number. Fix it: 65

What went wrong? 60 + 5 = 65, not 55.

PROGRAM 4 // this is the output the programmer wanted

```
start at 7
repeat 5 times
  print the number
  - subtract 12
```

OUTPUT: 7 | 19 | 31 | 43 | 55

◀ **Look at the code, circle the bug and explain how to fix it.**

Change "subtract 12" to "add 12".

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CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 1
repeat 6 times
  print the number
  × multiply by 2
```

OUTPUT

1 2 4 8 6 32

Circle the incorrect number. Fix it: 16

What went wrong?

8 × 2 = 16, not 6.

PROGRAM 2 // the code is right. Is the output?

```
start at 80
repeat 5 times
  print the number
  ÷ divide by 2
```

OUTPUT

80 40 30 10 5

Circle the incorrect number. Fix it: 20

What went wrong?

40 ÷ 2 = 20, not 30.

PROGRAM 3 // the code is right. Is the output?

```
start at 129
repeat 7 times
  print the number
  - subtract 12
```

OUTPUT

129 117 105 92 81 69 57

Circle the incorrect number. Fix it: 93

What went wrong?

It subtracted 13, not 12.

PROGRAM 4 // this is the output the programmer wanted

```
start at 74
repeat 7 times
  print the number
  - subtract 8
```

OUTPUT

74 67 60 53 46 39 32

◀ **Look at the code, circle the bug and explain how to fix it.**

Change "subtract 8" to "subtract 7".

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CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 68
repeat 6 times
  print the number
  - subtract 9
```

OUTPUT

68 59 50 41 32 13

Circle the incorrect number. Fix it: 23

What went wrong?

It subtracted 19, not 9.

PROGRAM 2 // the code is right. Is the output?

```
start at 31
repeat 5 times
  print the number
  - subtract 5
```

OUTPUT

31 26 21 6 11

Circle the incorrect number. Fix it: 16

What went wrong?

It subtracted 15, not 5.

PROGRAM 3 // the code is right. Is the output?

```
start at 26
repeat 6 times
  print the number
  + add 3
```

OUTPUT

26 29 32 35 28 41

Circle the incorrect number. Fix it: 38

What went wrong?

35 + 3 = 38, not 28.

PROGRAM 4 // this is the output the programmer wanted

```
start at 63
repeat 6 times
  print the number
  - subtract 9
```

OUTPUT

63 53 43 33 23 13

◀ **Look at the code, circle the bug and explain how to fix it.**

Change "subtract 9" to "subtract 10".

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CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 23
repeat 6 times
  print the number
  + add 6
```

OUTPUT

23 | 29 | 35 | 41 | 48 | 53

Circle the incorrect number. Fix it: 47

What went wrong? *It added 7, not 6.*

PROGRAM 2 // the code is right. Is the output?

```
start at 35
repeat 6 times
  print the number
  - subtract 2
```

OUTPUT

35 | 32 | 31 | 29 | 27 | 25

Circle the incorrect number. Fix it: 33

What went wrong? *It subtracted 3, not 2.*

PROGRAM 3 // the code is right. Is the output?

```
start at 9
repeat 5 times
  print the number
  + add 5
```

OUTPUT

9 | 12 | 19 | 24 | 29

Circle the incorrect number. Fix it: 14

What went wrong? *It added 3, not 5.*

PROGRAM 4 // this is the output the programmer wanted

```
start at 52
repeat 5 times
  print the number
  - subtract 9
```

OUTPUT

52 | 42 | 32 | 22 | 12

◀ **Look at the code, circle the bug and explain how to fix it.**

Change "subtract 9" to "subtract 10".

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CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 122
repeat 6 times
  print the number
  + add 16
```

OUTPUT

122 138 154 170 196 202

Circle the incorrect number. Fix it: 186

What went wrong?

It added 26, not 16.

PROGRAM 2 // the code is right. Is the output?

```
start at 351
repeat 6 times
  print the number
  + add 125
```

OUTPUT

351 476 601 762 851 976

Circle the incorrect number. Fix it: 726

What went wrong?

The digits of 726 got swapped.

PROGRAM 3 // the code is right. Is the output?

```
start at 315
repeat 7 times
  print the number
  - subtract 14
```

OUTPUT

315 301 287 273 258 245 231

Circle the incorrect number. Fix it: 259

What went wrong?

It subtracted 15, not 14.

PROGRAM 4 // this is the output the programmer wanted

```
start at 280
repeat 5 times
  print the number
  + add 24
```

OUTPUT

280 256 232 208 184

◀ **Look at the code, circle the bug and explain how to fix it.**

Change "add 24" to "subtract 24".

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CODEBREAKERS MISSION FILE C

Code Debugger II

Each program prints a number pattern, but something went wrong. Find the bug.

PROGRAM 1 // the code is right. Is the output?

```
start at 206
repeat 5 times
  print the number
  - subtract 25
```

OUTPUT

206 181 156 121 106

Circle the incorrect number. Fix it: 131

What went wrong?

It subtracted 35, not 25.

PROGRAM 2 // the code is right. Is the output?

```
start at 152
repeat 6 times
  print the number
  + add 18
```

OUTPUT

152 160 188 206 224 242

Circle the incorrect number. Fix it: 170

What went wrong?

It added 8, not 18.

PROGRAM 3 // the code is right. Is the output?

```
start at 234
repeat 6 times
  print the number
  - subtract 21
```

OUTPUT

234 213 182 171 150 129

Circle the incorrect number. Fix it: 192

What went wrong?

It subtracted 31, not 21.

PROGRAM 4 // this is the output the programmer wanted

```
start at 179
repeat 7 times
  print the number
  + add 109
```

OUTPUT

179 278 377 476 575 674 773

◀ **Look at the code, circle the bug and explain how to fix it.**

Change "add 109" to "add 99".

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