



Determine what rule the function machine is using.

**Answers**

1)

Input	Output
25	30
50	55
15	20
26	31
39	44

- A. subtract 4
- B. add 5
- C. subtract 3
- D. subtract 6

2)

Input	Output
25	30
18	23
47	52
36	41
42	47

- A. add 16
- B. subtract 18
- C. add 5
- D. subtract 14

3)

Input	Output
44	52
11	19
25	33
49	57
50	58

- A. add 8
- B. add 18
- C. subtract 9
- D. subtract 15

4)

Input	Output
48	57
49	58
15	24
38	47
40	49

- A. add 21
- B. add 9
- C. subtract 16
- D. subtract 19

5)

Input	Output
43	55
45	57
31	43
44	56
30	42

- A. subtract 11
- B. add 12
- C. subtract 6
- D. add 7

6)

Input	Output
29	43
18	32
41	55
23	37
36	50

- A. subtract 16
- B. add 8
- C. add 17
- D. add 14

7)

Input	Output
44	35
42	33
20	11
34	25
28	19

- A. subtract 9
- B. add 13
- C. subtract 18
- D. add 19

8)

Input	Output
46	34
31	19
37	25
54	42
39	27

- A. subtract 12
- B. add 7
- C. add 6
- D. subtract 9

9)

Input	Output
27	22
36	31
21	16
34	29
17	12

- A. add 20
- B. add 15
- C. subtract 11
- D. subtract 5

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
25	30
50	55
15	20
26	31
39	44

- A. subtract 4
- B. add 5
- C. subtract 3
- D. subtract 6

2)

Input	Output
25	30
18	23
47	52
36	41
42	47

- A. add 16
- B. subtract 18
- C. add 5
- D. subtract 14

3)

Input	Output
44	52
11	19
25	33
49	57
50	58

- A. add 8
- B. add 18
- C. subtract 9
- D. subtract 15

4)

Input	Output
48	57
49	58
15	24
38	47
40	49

- A. add 21
- B. add 9
- C. subtract 16
- D. subtract 19

5)

Input	Output
43	55
45	57
31	43
44	56
30	42

- A. subtract 11
- B. add 12
- C. subtract 6
- D. add 7

6)

Input	Output
29	43
18	32
41	55
23	37
36	50

- A. subtract 16
- B. add 8
- C. add 17
- D. add 14

7)

Input	Output
44	35
42	33
20	11
34	25
28	19

- A. subtract 9
- B. add 13
- C. subtract 18
- D. add 19

8)

Input	Output
46	34
31	19
37	25
54	42
39	27

- A. subtract 12
- B. add 7
- C. add 6
- D. subtract 9

9)

Input	Output
27	22
36	31
21	16
34	29
17	12

- A. add 20
- B. add 15
- C. subtract 11
- D. subtract 5

**Answers**

- 1. **B**
- 2. **C**
- 3. **A**
- 4. **B**
- 5. **B**
- 6. **D**
- 7. **A**
- 8. **A**
- 9. **D**



Determine what rule the function machine is using.

**Answers**

1)

Input	Output
14	29
49	64
25	40
46	61
35	50

- A. add 15
- B. add 11
- C. subtract 19
- D. subtract 9

2)

Input	Output
48	60
16	28
49	61
19	31
17	29

- A. subtract 28
- B. subtract 38
- C. add 12
- D. subtract 35

3)

Input	Output
13	19
40	46
48	54
21	27
44	50

- A. add 6
- B. subtract 24
- C. subtract 32
- D. add 26

4)

Input	Output
35	40
41	46
39	44
15	20
49	54

- A. add 27
- B. subtract 31
- C. add 5
- D. add 25

5)

Input	Output
33	21
59	47
25	13
60	48
39	27

- A. add 22
- B. subtract 20
- C. subtract 12
- D. add 23

6)

Input	Output
31	39
20	28
47	55
30	38
33	41

- A. add 24
- B. add 8
- C. subtract 28
- D. subtract 29

7)

Input	Output
25	34
37	46
11	20
10	19
44	53

- A. add 9
- B. add 14
- C. subtract 10
- D. subtract 15

8)

Input	Output
19	12
49	42
22	15
28	21
45	38

- A. add 6
- B. subtract 10
- C. add 1
- D. subtract 7

9)

Input	Output
49	34
53	38
38	23
40	25
25	10

- A. subtract 21
- B. subtract 20
- C. subtract 15
- D. add 14

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
14	29
49	64
25	40
46	61
35	50

- A. add 15
- B. add 11
- C. subtract 19
- D. subtract 9

2)

Input	Output
48	60
16	28
49	61
19	31
17	29

- A. subtract 28
- B. subtract 38
- C. add 12
- D. subtract 35

3)

Input	Output
13	19
40	46
48	54
21	27
44	50

- A. add 6
- B. subtract 24
- C. subtract 32
- D. add 26

4)

Input	Output
35	40
41	46
39	44
15	20
49	54

- A. add 27
- B. subtract 31
- C. add 5
- D. add 25

5)

Input	Output
33	21
59	47
25	13
60	48
39	27

- A. add 22
- B. subtract 20
- C. subtract 12
- D. add 23

6)

Input	Output
31	39
20	28
47	55
30	38
33	41

- A. add 24
- B. add 8
- C. subtract 28
- D. subtract 29

7)

Input	Output
25	34
37	46
11	20
10	19
44	53

- A. add 9
- B. add 14
- C. subtract 10
- D. subtract 15

8)

Input	Output
19	12
49	42
22	15
28	21
45	38

- A. add 6
- B. subtract 10
- C. add 1
- D. subtract 7

9)

Input	Output
49	34
53	38
38	23
40	25
25	10

- A. subtract 21
- B. subtract 20
- C. subtract 15
- D. add 14

**Answers**

- 1.   **A**
- 2.   **C**
- 3.   **A**
- 4.   **C**
- 5.   **C**
- 6.   **B**
- 7.   **A**
- 8.   **D**
- 9.   **C**



Determine what rule the function machine is using.

**Answers**

1)

Input	Output
50	38
33	21
49	37
28	16
32	20

- A. add 21
- B. add 23
- C. subtract 19
- D. subtract 12

2)

Input	Output
41	34
26	19
27	20
49	42
50	43

- A. subtract 7
- B. add 37
- C. subtract 38
- D. add 31

3)

Input	Output
16	29
45	58
23	36
17	30
26	39

- A. subtract 21
- B. subtract 18
- C. add 18
- D. add 13

4)

Input	Output
17	23
37	43
45	51
16	22
18	24

- A. subtract 7
- B. add 6
- C. subtract 3
- D. subtract 8

5)

Input	Output
46	33
55	42
43	30
53	40
62	49

- A. add 36
- B. subtract 13
- C. subtract 38
- D. add 41

6)

Input	Output
25	18
26	19
17	10
50	43
23	16

- A. subtract 15
- B. add 8
- C. subtract 7
- D. add 14

7)

Input	Output
30	40
48	58
36	46
44	54
18	28

- A. add 10
- B. subtract 12
- C. add 14
- D. subtract 15

8)

Input	Output
41	48
25	32
23	30
37	44
22	29

- A. add 25
- B. subtract 22
- C. add 7
- D. add 26

9)

Input	Output
60	45
28	13
30	15
65	50
56	41

- A. add 10
- B. add 13
- C. subtract 15
- D. subtract 6

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
50	38
33	21
49	37
28	16
32	20

- A. add 21
- B. add 23
- C. subtract 19
- D. subtract 12

2)

Input	Output
41	34
26	19
27	20
49	42
50	43

- A. subtract 7
- B. add 37
- C. subtract 38
- D. add 31

3)

Input	Output
16	29
45	58
23	36
17	30
26	39

- A. subtract 21
- B. subtract 18
- C. add 18
- D. add 13

4)

Input	Output
17	23
37	43
45	51
16	22
18	24

- A. subtract 7
- B. add 6
- C. subtract 3
- D. subtract 8

5)

Input	Output
46	33
55	42
43	30
53	40
62	49

- A. add 36
- B. subtract 13
- C. subtract 38
- D. add 41

6)

Input	Output
25	18
26	19
17	10
50	43
23	16

- A. subtract 15
- B. add 8
- C. subtract 7
- D. add 14

7)

Input	Output
30	40
48	58
36	46
44	54
18	28

- A. add 10
- B. subtract 12
- C. add 14
- D. subtract 15

8)

Input	Output
41	48
25	32
23	30
37	44
22	29

- A. add 25
- B. subtract 22
- C. add 7
- D. add 26

9)

Input	Output
60	45
28	13
30	15
65	50
56	41

- A. add 10
- B. add 13
- C. subtract 15
- D. subtract 6

**Answers**

- 1.     **D**
- 2.     **A**
- 3.     **D**
- 4.     **B**
- 5.     **B**
- 6.     **C**
- 7.     **A**
- 8.     **C**
- 9.     **C**



Determine what rule the function machine is using.

**Answers**

1)

Input	Output
57	43
55	41
61	47
58	44
35	21

- A. subtract 11
- B. add 5
- C. add 9
- D. subtract 14

2)

Input	Output
15	28
18	31
12	25
22	35
49	62

- A. add 13
- B. subtract 19
- C. add 17
- D. subtract 13

3)

Input	Output
24	15
49	40
48	39
31	22
35	26

- A. subtract 18
- B. subtract 9
- C. add 15
- D. add 17

4)

Input	Output
60	46
43	29
38	24
26	12
59	45

- A. add 27
- B. add 33
- C. subtract 14
- D. subtract 28

5)

Input	Output
25	16
31	22
45	36
49	40
51	42

- A. add 2
- B. subtract 8
- C. add 11
- D. subtract 9

6)

Input	Output
42	28
51	37
57	43
26	12
31	17

- A. add 10
- B. subtract 11
- C. add 16
- D. subtract 14

7)

Input	Output
13	22
41	50
19	28
23	32
44	53

- A. add 9
- B. subtract 21
- C. subtract 23
- D. add 14

8)

Input	Output
40	28
58	46
47	35
54	42
24	12

- A. subtract 38
- B. add 29
- C. subtract 12
- D. add 31

9)

Input	Output
31	46
27	42
14	29
21	36
24	39

- A. add 37
- B. add 15
- C. subtract 31
- D. add 32

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
57	43
55	41
61	47
58	44
35	21

- A. subtract 11
- B. add 5
- C. add 9
- D. subtract 14

2)

Input	Output
15	28
18	31
12	25
22	35
49	62

- A. add 13
- B. subtract 19
- C. add 17
- D. subtract 13

3)

Input	Output
24	15
49	40
48	39
31	22
35	26

- A. subtract 18
- B. subtract 9
- C. add 15
- D. add 17

4)

Input	Output
60	46
43	29
38	24
26	12
59	45

- A. add 27
- B. add 33
- C. subtract 14
- D. subtract 28

5)

Input	Output
25	16
31	22
45	36
49	40
51	42

- A. add 2
- B. subtract 8
- C. add 11
- D. subtract 9

6)

Input	Output
42	28
51	37
57	43
26	12
31	17

- A. add 10
- B. subtract 11
- C. add 16
- D. subtract 14

7)

Input	Output
13	22
41	50
19	28
23	32
44	53

- A. add 9
- B. subtract 21
- C. subtract 23
- D. add 14

8)

Input	Output
40	28
58	46
47	35
54	42
24	12

- A. subtract 38
- B. add 29
- C. subtract 12
- D. add 31

9)

Input	Output
31	46
27	42
14	29
21	36
24	39

- A. add 37
- B. add 15
- C. subtract 31
- D. add 32

**Answers**

- 1.     **D**
- 2.     **A**
- 3.     **B**
- 4.     **C**
- 5.     **D**
- 6.     **D**
- 7.     **A**
- 8.     **C**
- 9.     **B**





Determine what rule the function machine is using.

**Answers**

1)

Input	Output
22	12
52	42
48	38
39	29
42	32

- A. add 26
- B. add 28
- C. subtract 27
- D. subtract 10

2)

Input	Output
38	30
23	15
45	37
22	14
19	11

- A. add 9
- B. add 10
- C. subtract 6
- D. subtract 8

3)

Input	Output
47	56
44	53
33	42
26	35
34	43

- A. add 3
- B. subtract 12
- C. add 9
- D. add 4

4)

Input	Output
19	29
22	32
20	30
40	50
39	49

- A. add 10
- B. subtract 37
- C. add 31
- D. add 29

5)

Input	Output
44	50
17	23
40	46
27	33
13	19

- A. subtract 23
- B. add 6
- C. subtract 24
- D. subtract 20

6)

Input	Output
12	26
37	51
42	56
14	28
32	46

- A. subtract 21
- B. add 14
- C. add 18
- D. add 19

7)

Input	Output
23	32
15	24
32	41
33	42
36	45

- A. subtract 11
- B. add 16
- C. subtract 17
- D. add 9

8)

Input	Output
45	56
17	28
19	30
36	47
30	41

- A. subtract 27
- B. add 11
- C. subtract 24
- D. add 27

9)

Input	Output
30	16
39	25
59	45
35	21
42	28

- A. add 33
- B. subtract 40
- C. subtract 42
- D. subtract 14

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
22	12
52	42
48	38
39	29
42	32

- A. add 26
- B. add 28
- C. subtract 27
- D. subtract 10

2)

Input	Output
38	30
23	15
45	37
22	14
19	11

- A. add 9
- B. add 10
- C. subtract 6
- D. subtract 8

3)

Input	Output
47	56
44	53
33	42
26	35
34	43

- A. add 3
- B. subtract 12
- C. add 9
- D. add 4

4)

Input	Output
19	29
22	32
20	30
40	50
39	49

- A. add 10
- B. subtract 37
- C. add 31
- D. add 29

5)

Input	Output
44	50
17	23
40	46
27	33
13	19

- A. subtract 23
- B. add 6
- C. subtract 24
- D. subtract 20

6)

Input	Output
12	26
37	51
42	56
14	28
32	46

- A. subtract 21
- B. add 14
- C. add 18
- D. add 19

7)

Input	Output
23	32
15	24
32	41
33	42
36	45

- A. subtract 11
- B. add 16
- C. subtract 17
- D. add 9

8)

Input	Output
45	56
17	28
19	30
36	47
30	41

- A. subtract 27
- B. add 11
- C. subtract 24
- D. add 27

9)

Input	Output
30	16
39	25
59	45
35	21
42	28

- A. add 33
- B. subtract 40
- C. subtract 42
- D. subtract 14

**Answers**

- 1.     **D**
- 2.     **D**
- 3.     **C**
- 4.     **A**
- 5.     **B**
- 6.     **B**
- 7.     **D**
- 8.     **B**
- 9.     **D**



Determine what rule the function machine is using.

**Answers**

1)

Input	Output
30	19
46	35
51	40
23	12
45	34

- A. add 19
- B. subtract 11
- C. add 20
- D. subtract 10

2)

Input	Output
50	58
35	43
48	56
41	49
46	54

- A. add 8
- B. subtract 27
- C. subtract 22
- D. subtract 19

3)

Input	Output
34	44
25	35
19	29
49	59
16	26

- A. add 17
- B. add 10
- C. subtract 12
- D. subtract 19

4)

Input	Output
10	22
37	49
46	58
13	25
11	23

- A. add 32
- B. subtract 31
- C. add 36
- D. add 12

5)

Input	Output
57	50
18	11
22	15
45	38
40	33

- A. subtract 10
- B. add 12
- C. subtract 7
- D. add 11

6)

Input	Output
56	45
61	50
52	41
26	15
47	36

- A. subtract 6
- B. subtract 11
- C. add 11
- D. add 12

7)

Input	Output
23	30
46	53
49	56
13	20
38	45

- A. add 7
- B. add 17
- C. subtract 18
- D. subtract 10

8)

Input	Output
40	26
56	42
59	45
33	19
36	22

- A. add 20
- B. subtract 13
- C. subtract 14
- D. add 12

9)

Input	Output
29	34
23	28
37	42
11	16
45	50

- A. subtract 6
- B. add 5
- C. subtract 11
- D. subtract 4

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
30	19
46	35
51	40
23	12
45	34

- A. add 19
- B. subtract 11
- C. add 20
- D. subtract 10

2)

Input	Output
50	58
35	43
48	56
41	49
46	54

- A. add 8
- B. subtract 27
- C. subtract 22
- D. subtract 19

3)

Input	Output
34	44
25	35
19	29
49	59
16	26

- A. add 17
- B. add 10
- C. subtract 12
- D. subtract 19

4)

Input	Output
10	22
37	49
46	58
13	25
11	23

- A. add 32
- B. subtract 31
- C. add 36
- D. add 12

5)

Input	Output
57	50
18	11
22	15
45	38
40	33

- A. subtract 10
- B. add 12
- C. subtract 7
- D. add 11

6)

Input	Output
56	45
61	50
52	41
26	15
47	36

- A. subtract 6
- B. subtract 11
- C. add 11
- D. add 12

7)

Input	Output
23	30
46	53
49	56
13	20
38	45

- A. add 7
- B. add 17
- C. subtract 18
- D. subtract 10

8)

Input	Output
40	26
56	42
59	45
33	19
36	22

- A. add 20
- B. subtract 13
- C. subtract 14
- D. add 12

9)

Input	Output
29	34
23	28
37	42
11	16
45	50

- A. subtract 6
- B. add 5
- C. subtract 11
- D. subtract 4

**Answers**

- 1. **B**
- 2. **A**
- 3. **B**
- 4. **D**
- 5. **C**
- 6. **B**
- 7. **A**
- 8. **C**
- 9. **B**



Determine what rule the function machine is using.

**Answers**

1)

Input	Output
41	49
24	32
30	38
47	55
50	58

- A. add 12
- B. subtract 14
- C. add 8
- D. subtract 11

2)

Input	Output
14	24
29	39
27	37
25	35
24	34

- A. add 10
- B. add 25
- C. add 28
- D. subtract 27

3)

Input	Output
38	24
52	38
51	37
44	30
39	25

- A. subtract 6
- B. add 7
- C. add 5
- D. subtract 14

4)

Input	Output
56	45
44	33
30	19
40	29
48	37

- A. subtract 13
- B. add 14
- C. subtract 11
- D. add 7

5)

Input	Output
32	46
40	54
34	48
10	24
24	38

- A. subtract 19
- B. add 18
- C. subtract 20
- D. add 14

6)

Input	Output
30	15
35	20
56	41
45	30
57	42

- A. subtract 15
- B. add 21
- C. add 11
- D. subtract 11

7)

Input	Output
14	21
20	27
38	45
37	44
43	50

- A. add 7
- B. subtract 10
- C. add 9
- D. subtract 7

8)

Input	Output
50	44
22	16
32	26
20	14
24	18

- A. add 12
- B. subtract 8
- C. subtract 6
- D. add 16

9)

Input	Output
57	47
21	11
39	29
50	40
59	49

- A. add 29
- B. subtract 10
- C. subtract 26
- D. add 24

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
41	49
24	32
30	38
47	55
50	58

- A. add 12
- B. subtract 14
- C. add 8
- D. subtract 11

2)

Input	Output
14	24
29	39
27	37
25	35
24	34

- A. add 10
- B. add 25
- C. add 28
- D. subtract 27

3)

Input	Output
38	24
52	38
51	37
44	30
39	25

- A. subtract 6
- B. add 7
- C. add 5
- D. subtract 14

4)

Input	Output
56	45
44	33
30	19
40	29
48	37

- A. subtract 13
- B. add 14
- C. subtract 11
- D. add 7

5)

Input	Output
32	46
40	54
34	48
10	24
24	38

- A. subtract 19
- B. add 18
- C. subtract 20
- D. add 14

6)

Input	Output
30	15
35	20
56	41
45	30
57	42

- A. subtract 15
- B. add 21
- C. add 11
- D. subtract 11

7)

Input	Output
14	21
20	27
38	45
37	44
43	50

- A. add 7
- B. subtract 10
- C. add 9
- D. subtract 7

8)

Input	Output
50	44
22	16
32	26
20	14
24	18

- A. add 12
- B. subtract 8
- C. subtract 6
- D. add 16

9)

Input	Output
57	47
21	11
39	29
50	40
59	49

- A. add 29
- B. subtract 10
- C. subtract 26
- D. add 24

**Answers**

- 1.     **C**
- 2.     **A**
- 3.     **D**
- 4.     **C**
- 5.     **D**
- 6.     **A**
- 7.     **A**
- 8.     **C**
- 9.     **B**



Determine what rule the function machine is using.

**Answers**

1)

Input	Output
19	11
36	28
37	29
27	19
58	50

- A. subtract 8
- B. subtract 24
- C. subtract 16
- D. add 20

2)

Input	Output
25	34
42	51
15	24
37	46
46	55

- A. subtract 19
- B. subtract 14
- C. add 18
- D. add 9

3)

Input	Output
26	39
38	51
16	29
32	45
17	30

- A. subtract 18
- B. subtract 10
- C. add 12
- D. add 13

4)

Input	Output
43	34
25	16
36	27
24	15
57	48

- A. add 21
- B. subtract 20
- C. subtract 9
- D. add 16

5)

Input	Output
37	50
48	61
49	62
46	59
44	57

- A. subtract 12
- B. subtract 13
- C. add 13
- D. subtract 15

6)

Input	Output
62	47
38	23
33	18
49	34
56	41

- A. add 34
- B. add 24
- C. subtract 27
- D. subtract 15

7)

Input	Output
40	51
20	31
18	29
27	38
35	46

- A. add 6
- B. add 11
- C. subtract 9
- D. subtract 5

8)

Input	Output
15	23
12	20
17	25
43	51
41	49

- A. subtract 11
- B. add 8
- C. add 4
- D. subtract 2

9)

Input	Output
41	28
59	46
26	13
62	49
44	31

- A. add 11
- B. subtract 12
- C. add 10
- D. subtract 13

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
19	11
36	28
37	29
27	19
58	50

- A. subtract 8
- B. subtract 24
- C. subtract 16
- D. add 20

2)

Input	Output
25	34
42	51
15	24
37	46
46	55

- A. subtract 19
- B. subtract 14
- C. add 18
- D. add 9

3)

Input	Output
26	39
38	51
16	29
32	45
17	30

- A. subtract 18
- B. subtract 10
- C. add 12
- D. add 13

4)

Input	Output
43	34
25	16
36	27
24	15
57	48

- A. add 21
- B. subtract 20
- C. subtract 9
- D. add 16

5)

Input	Output
37	50
48	61
49	62
46	59
44	57

- A. subtract 12
- B. subtract 13
- C. add 13
- D. subtract 15

6)

Input	Output
62	47
38	23
33	18
49	34
56	41

- A. add 34
- B. add 24
- C. subtract 27
- D. subtract 15

7)

Input	Output
40	51
20	31
18	29
27	38
35	46

- A. add 6
- B. add 11
- C. subtract 9
- D. subtract 5

8)

Input	Output
15	23
12	20
17	25
43	51
41	49

- A. subtract 11
- B. add 8
- C. add 4
- D. subtract 2

9)

Input	Output
41	28
59	46
26	13
62	49
44	31

- A. add 11
- B. subtract 12
- C. add 10
- D. subtract 13

**Answers**

- 1. **A**
- 2. **D**
- 3. **D**
- 4. **C**
- 5. **C**
- 6. **D**
- 7. **B**
- 8. **B**
- 9. **D**





Determine what rule the function machine is using.

**Answers**

1)

Input	Output
46	58
21	33
20	32
27	39
50	62

- A. add 12
- B. add 28
- C. subtract 27
- D. subtract 34

2)

Input	Output
36	43
20	27
29	36
26	33
17	24

- A. subtract 10
- B. add 3
- C. add 11
- D. add 7

3)

Input	Output
38	44
18	24
44	50
40	46
47	53

- A. subtract 31
- B. add 6
- C. subtract 29
- D. add 29

4)

Input	Output
12	24
45	57
27	39
35	47
39	51

- A. subtract 25
- B. add 12
- C. subtract 28
- D. add 21

5)

Input	Output
36	46
22	32
25	35
14	24
34	44

- A. add 10
- B. subtract 23
- C. subtract 17
- D. add 27

6)

Input	Output
23	17
36	30
34	28
42	36
38	32

- A. add 21
- B. subtract 6
- C. subtract 17
- D. subtract 16

7)

Input	Output
57	47
54	44
53	43
56	46
22	12

- A. add 23
- B. subtract 10
- C. add 20
- D. add 21

8)

Input	Output
27	22
38	33
35	30
48	43
47	42

- A. add 9
- B. subtract 5
- C. add 8
- D. add 7

9)

Input	Output
30	45
33	48
14	29
35	50
43	58

- A. subtract 15
- B. subtract 17
- C. add 15
- D. subtract 9

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
46	58
21	33
20	32
27	39
50	62

- A. add 12
- B. add 28
- C. subtract 27
- D. subtract 34

2)

Input	Output
36	43
20	27
29	36
26	33
17	24

- A. subtract 10
- B. add 3
- C. add 11
- D. add 7

3)

Input	Output
38	44
18	24
44	50
40	46
47	53

- A. subtract 31
- B. add 6
- C. subtract 29
- D. add 29

4)

Input	Output
12	24
45	57
27	39
35	47
39	51

- A. subtract 25
- B. add 12
- C. subtract 28
- D. add 21

5)

Input	Output
36	46
22	32
25	35
14	24
34	44

- A. add 10
- B. subtract 23
- C. subtract 17
- D. add 27

6)

Input	Output
23	17
36	30
34	28
42	36
38	32

- A. add 21
- B. subtract 6
- C. subtract 17
- D. subtract 16

7)

Input	Output
57	47
54	44
53	43
56	46
22	12

- A. add 23
- B. subtract 10
- C. add 20
- D. add 21

8)

Input	Output
27	22
38	33
35	30
48	43
47	42

- A. add 9
- B. subtract 5
- C. add 8
- D. add 7

9)

Input	Output
30	45
33	48
14	29
35	50
43	58

- A. subtract 15
- B. subtract 17
- C. add 15
- D. subtract 9

**Answers**

- 1. **A**
- 2. **D**
- 3. **B**
- 4. **B**
- 5. **A**
- 6. **B**
- 7. **B**
- 8. **B**
- 9. **C**



Determine what rule the function machine is using.

**Answers**

1)

Input	Output
25	12
53	40
48	35
51	38
35	22

- A. subtract 32
- B. subtract 13
- C. add 24
- D. subtract 29

2)

Input	Output
36	50
33	47
38	52
34	48
25	39

- A. add 14
- B. add 25
- C. subtract 30
- D. subtract 29

3)

Input	Output
31	39
14	22
45	53
50	58
15	23

- A. subtract 29
- B. add 8
- C. subtract 27
- D. add 29

4)

Input	Output
59	48
31	20
61	50
29	18
38	27

- A. subtract 1
- B. add 9
- C. add 5
- D. subtract 11

5)

Input	Output
24	17
27	20
38	31
37	30
36	29

- A. add 37
- B. subtract 7
- C. add 38
- D. subtract 32

6)

Input	Output
38	26
34	22
59	47
45	33
29	17

- A. subtract 9
- B. add 16
- C. add 18
- D. subtract 12

7)

Input	Output
16	30
45	59
24	38
43	57
39	53

- A. subtract 12
- B. subtract 8
- C. add 6
- D. add 14

8)

Input	Output
34	43
26	35
44	53
18	27
21	30

- A. add 9
- B. add 23
- C. add 21
- D. subtract 24

9)

Input	Output
33	46
17	30
23	36
16	29
29	42

- A. add 27
- B. subtract 21
- C. subtract 26
- D. add 13

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



Determine what rule the function machine is using.

1)

Input	Output
25	12
53	40
48	35
51	38
35	22

- A. subtract 32
- B. subtract 13
- C. add 24
- D. subtract 29

2)

Input	Output
36	50
33	47
38	52
34	48
25	39

- A. add 14
- B. add 25
- C. subtract 30
- D. subtract 29

3)

Input	Output
31	39
14	22
45	53
50	58
15	23

- A. subtract 29
- B. add 8
- C. subtract 27
- D. add 29

4)

Input	Output
59	48
31	20
61	50
29	18
38	27

- A. subtract 1
- B. add 9
- C. add 5
- D. subtract 11

5)

Input	Output
24	17
27	20
38	31
37	30
36	29

- A. add 37
- B. subtract 7
- C. add 38
- D. subtract 32

6)

Input	Output
38	26
34	22
59	47
45	33
29	17

- A. subtract 9
- B. add 16
- C. add 18
- D. subtract 12

7)

Input	Output
16	30
45	59
24	38
43	57
39	53

- A. subtract 12
- B. subtract 8
- C. add 6
- D. add 14

8)

Input	Output
34	43
26	35
44	53
18	27
21	30

- A. add 9
- B. add 23
- C. add 21
- D. subtract 24

9)

Input	Output
33	46
17	30
23	36
16	29
29	42

- A. add 27
- B. subtract 21
- C. subtract 26
- D. add 13

**Answers**

- 1. **B**
- 2. **A**
- 3. **B**
- 4. **D**
- 5. **B**
- 6. **D**
- 7. **D**
- 8. **A**
- 9. **D**