Листинг окончательного варианта программы и тесты к ней.

00, ,<,64

18,1, ,01

18,0, ,02

01, ,<,03

03,1,<,03

03,0,<,03

03, ,1,04

02, ,<,05

05,1,<,05

05,0,<,05

05, ,0,04

04,1,>,06

04,0,>,06

06,1, ,07

07, ,>,08

08,1,>,08

08,0,>,08

08, ,1,09

09,1,<,18

06,0, ,10

10, ,>,11

11,1,>,11

11,0,>,11

11, ,0,13

13,0,<,18

18, ,=,06

06, ,<,14

14,1, ,15

15, ,>,16

16, ,1,17

17,1,<,06

14,0, ,6015

6015, ,>,6016

6016, ,0,6017

6017,0,<,06

14, ,=,12

12, ,<,19

19,1, ,20

19,0, ,21

19, ,>,1111111

1111111, ,>,34

20, ,>,22

22, ,1,23

21, ,>,24

24, ,0,23

23,1,>,23

23,0,>,23

23, ,>,25

25, ,>,25

25,1, ,26

25,0, ,27

26, ,<,28

28, ,1,31

27, ,<,30

30, ,0,31

31,0,>,31

31,1,>,31

31, ,<,29

29,0,=,290

29,1,=,291

291,1,<,291

291,0,<,291

291, ,>,2913

2913,0,=,2901

2913,1,=,2911

290,0,<,290

290,1,<,290

290, ,>,2903

2903,1,=,2901

2903,0,=,2901

2901,1,>,2901

2901,0,>,2901

2901, ,>,29013

29013,1,=,2901

29013,0,=,2901

29013, ,<,29014

29014, ,0,32

2911,1,>,2911

2911,0,>,2911

2911, ,>,29113

29113,1,=,2911

29113,0,=,2911

29113, ,<,29114

29114, ,1,32

32,0,<,32

32,1,<,32

32, ,<,33

33,1,<,33

33,0,<,33

33, ,=,12

34,1,>,34

34,0,>,34

34, ,>,35

35,0, ,360

360, ,>,3603

3603,1,>,3603

3603,0,>,3603

3603, ,0,37

35,1, ,361

361, ,>,3613

3613,1,>,3613

3613,0,>,3613

3613, ,1,37

37,1,<,38

37,0,<,38

38,1, ,381

381, ,<,391

391,1,<,391

391,0,<,391

391, ,1,40

38,0, ,380

380, ,<,390

390,0,<,390

390,1,<,390

390, ,0,40

38, ,=,35

35, ,<,41

40,1,>,35

40,0,>,35

41,1, ,411

411, ,>,4113

4113, ,1,4113

4113,1,<,35

41,0, ,410

410, ,>,4103

4103, ,0,4103

4103,0,<,35

41, ,=,42

42, ,<,423

423, ,>,50

423,1,=,42

423,0,=,42

42,1, ,421

421, ,>,4213

4213, ,1,43

42,0, ,420

420, ,>,4203

4203, ,0,43

43,1,<,44

43,0,<,44

44, ,<,45

45,1,<,45

45,0,<,45

45, ,>,46

46,1, ,461

461, ,<,4613

4613, ,1,47

46,0, ,460

460, ,<,4603

4603, ,0,47

47,1,>,48

47,0,>,48

48, ,>,49

49,1,>,49

49,0,>,49

49, ,=,42

50, ,>,51

51,1,>,51

51,0,>,51

51, ,<,52

52,1, ,521

521, ,<,5213

5213,1,<,5213

5213,0,<,5213

5213, ,1,53

52,0, ,520

520, ,<,5203

5203,1,<,5203

5203,0,<,5203

5203, ,0,53

53,1,>,54

53,0,>,54

54,1, ,541

541, ,>,5413

5413,1,>,5413

5413,0,>,5413

5413, ,1,55

54,0, ,540

540, ,>,5403

5403,1,>,5403

5403,0,>,5403

5403, ,0,55

54, ,=,52

55,1,<,52

55,0,<,52

52, ,>,56

56,1, ,561

561, ,<,5613

5613, ,1,5613

5613,1,>,52

56,0, ,560

560, ,<,5603

5603, ,0,5603

5603,0,>,52

56, ,>,57

57,1,=,56

57,0,=,56

57, ,<,58

58, ,#,58

59,1, ,591

591, ,>,5913

5913, ,1,60

59,0, ,590

590, ,>,5903

5903, ,0,60

60,1,<,61

60,0,<,61

61, ,<,59

59, ,>,62

62, ,>,63

63,1,>,63

63,0,>,63

63, ,<,18

64,0,<,640

640, ,>,6405

6405,0,>,6403

6405,1,>,6403

6403, ,>,6404

6404, ,0,6404

6404,0,#,6404

64,1,<,641

641, ,<,6413

6413,0,>,640

6413,1,>,6414

6414, ,>,6414

6414,1,>,6415

6415, ,>,6416

6416, ,1,6417

6417,1,#,6417

640,0,>,59

640,1,>,59

641,0,>,59

641,1,>,59

Тесты:

1 1 -> 1 1 1

1 0 -> 1 0 0

0 1 -> 0 1 0

0 0 -> 0 0 0

1010 1101 -> 1010 1101 1000

11111111 00000000 -> 11111111 00000000 00000000

10101010 01010101 -> 10101010 01010101 00000000

11111 01101 -> 11111 01101 01101

111111 111111 -> 111111 111111 111111

000000 000000 -> 000000 000000 000000

10111011101110111011101110111011 01100110011001100110011001100110 ->

10111011101110111011101110111011 01100110011001100110011001100110 0010 0010 0010 0010 0010 0010 0010 0010