

## \* Assignment 1 - Introduction to computer programming and Java Question and answers

1. Binary code
2. Assembly code
3. Direct control over hardware
4. Easy for humans to read and write
5. Assembly language
6. Mnemonics and symbols
7. Mid-level language
8. x86 Assembly language
9. High-level language
10. ~~Binary~~ Portability across platforms.
11. ALGOL (Algorithmic Language)
12. COBOL
13. James Gosling and Mike Sheridan
14. 1995
15. Oak
16. Write Once, Run Anywhere (WORA)
17. Java compiler.
18. Write Once Run Anywhere (WORA)
19. Oracle Corporation.
20. Bytecode.
21. Assembly language
22. Highly specific to architecture.
23. Low-level language
24. Low-level language
25. Mnemonics and Symbols.

26. Mid-level language
27. x86 Assembly
28. High-level language.
29. ~~Portability~~ Portability across platforms.
30. ALGOL (Algorithmic Language)
31. Readability and English-like syntax.
32. James Gosling and Mike Sheridan.
33. 1995
34. Oak
35. Write Once, Run Anywhere (Wora)
36. Write Once, Run Anywhere (WORA)
37. Oracle Corporation.
38. To develop a programming language for interactive television.
39. Binary code.
40. Direct control over hardware.
41. Requires deep understanding of computer architecture.
42. Assembly language.
43. Mnemonics and symbols.
44. Mid-level language
45. x86 Assembly
46. High-level language
47. Portability across platforms.
48. ALGOL (Algorithmic Language)
49. Readability and English-like syntax.
50. James Gosling and Mike Sheridan.
51. 1995
52. Oak

## Q1-getting-Started-with-Java-development-questions

### Answers

1. By right clicking on computer and then going to properties.
2. Public JRE
3. Set Command
4. Path
5. Echo
6. 2
7. In my computer under System level.
8. In my computer under user level.
9. Through Set command.
10. In order to specify the commands location.
11. JDK version.
12. Javac
13. Java
14. Java
15. .Java
16. Java
17. Class
18. from the place where java file is saved
19. from the place where java command available
20. First javac and then java.
21. d
22. j
23. Version
24. Help
25. cd

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## Q2-Identifiers-Literals-Questions

### Answers

1. ~~cross~~ class
2. 100
3. cross
4. Class
5. Class
6. "true"
7. true
8. 0
9. ~~100~~, ~~5~~
10. '10', '5'
11. '4'
12. 'true'
13. true
14. true
15. true
16. false
17. false
18. ~~\$ \$~~
19. false
20. false

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| 26. ~~Q2~~, cd...

★ (03 - Print und println)

1. true
2. false
3. println
4. 1
5. 1
6. System.out.println();

★ (04 - Local-Variables)

1. true
2. false
3. false
4. true
5. false
6. false
7. true
8. true
9. true
10. true
11. true

★ (05 - Unary-Operators)

- |      |    |      |    |
|------|----|------|----|
| 1.)  | 1  | 11.) | 2  |
|      | 2  |      | 14 |
|      | 2  | 12.) | 0  |
| 2.)  | 0  |      | 10 |
|      | 1  | 13.) | 0  |
|      | 1  | 14.) | 5  |
|      | 1  | 15.) | 1  |
|      | 1  |      | 1  |
| 3.)  | 5  |      | 1  |
|      | 4  |      | 1  |
|      | 4  |      | 1  |
|      | 4  | 16.) | 4  |
|      | 4  |      | 4  |
|      | 4  |      | 4  |
| 4.)  | 1  |      | 4  |
|      | 0  |      | 4  |
| 5.)  | 9  | 17.) | 1  |
|      | 10 |      | 1  |
| 6.)  | 1  | 18.) | 4  |
|      | 1  |      | 4  |
| 7.)  | 4  | 19.) | 2  |
|      | 9  |      | 4  |
| 8.)  | 2  | 20.) | 1  |
|      | 4  |      | 6  |
| 9.)  | 3  |      |    |
|      | 16 |      |    |
| 10.) | 3  |      |    |
|      | 6  |      |    |

## ★ (06-Logical-Operators)

1) true / false

2) true

3) true

4) false

## ★ (07-if\_and\_else\_if\_and\_else-block)

1.) 2.

11.) true

2) if block: 1

false

main: 3

true

3) main: 1

true

4) if block: 0

false

main: 2

true

5) if block: 1

true

main: 3

false

6) if block: 2

false

main: 4

false

7) main: 2

12.) Compile time error

8) main: 0

13.) true

9) main: 2

1

10) if block: 2

14.) false

main: 4

0

10)

15.) true

1

16) main begin

if block

main end

17) main begin

else block

main end

18) main begin

else block

main end

19) main begin

if block

else block Stmt2

main end

else block Stmt3 29) Compile Time Error

main end

30) main begin

block - Stmt2

block - Stmt2

block - Stmt3

20) main begin

if block

main end

21) Compile time error

22) main begin

if block

main end: 30

23) main begin

if block

main end: 30

24) if block

else block Stmt1

else block Stmt2

else block Stmt3

main end:

25) main begin

if block

else block Stmt2

else block Stmt3

~~else block Stmt~~

main end:

26) Compile Time Error

27) Compile Time Error

28) main begin

if - block

main end

else block Stmt3 29) Compile Time Error

main end

30) main begin

block - Stmt2

block - Stmt2

block - Stmt3

block - Stmt4

Some thing

block - Stmt1

block - Stmt2

block - Stmt3

block - Stmt4

main end:

31) Compile Time Error

32) main begin  
 block-stmt 1  
 block-stmt 2  
 block-stmt 3  
 block-stmt 4  
 Some thing: 30  
 block-stmt 1  
 block-stmt 2  
 block-stmt 3  
 block-stmt 4  
 main end: 60

33) main begin  
 if 1 begin  
 else 2-body  
 if 1 end  
 main end

34) main begin  
 if 1 begin  
 if 2 body  
 if 1 end  
 main end

35) main begin  
 main end

36) main begin  
 if 2 body  
 main end  
 if 2 body  
 main end

38) main begin  
 if 2 body  
 main end  
 39) main begin  
 main end  
 40) main begin  
 else2 - ~~body~~ body  
 main end  
 41) main begin  
 if 1 begin  
 else 2-body  
 if 2 end  
 main end

42) main begin  
 else1 - body  
 main body  
 43) main begin  
 else1 - body  
 main end  
 44) main begin  
 else 2-body  
 main end

45) main begin  
 else1 - body  
 main end  
 46) main begin  
 else1 - body  
 main end

47) main begin  
 else1 - body  
 main end  
 48) main begin  
 else2 - body  
 main end  
 49) main begin  
 if 1 begin  
 else 2-body  
 if 1 end  
 main end  
 50) main begin  
 if 2 begin  
 else 2-body  
 if 1 end  
 main end  
 51) main end  
 main begin  
 if 1 begin  
 else 2-body  
 if 1 end  
 main end  
 52) main begin  
 if 1 begin  
 else2 - body  
 if 2 end  
 main end  
 53) main begin  
 if 1 begin  
 else 2-body  
 main end  
 54) main begin  
 else 2-body  
 main end  
 55) main begin  
 else 2-body  
 main end  
 56) main begin  
 else2 - body  
 main end  
 57) main begin  
 else 2-body  
 main end  
 58) main begin  
 else1 - body  
 main end  
 59) main begin  
 if - body  
 main end  
 60) main begin  
 else begin  
 else if body  
 else end  
 main end  
 61) main begin  
 else if body  
 main end.

62) main begin  
else if body  
main end

63) main begin  
if - body  
main end

64) main begin  
main end

65) main begin  
if - body  
main end

66) main begin  
else begin  
else else body

67) main begin  
main end

68) main begin  
else begin  
else if body  
else end  
main end

69) main begin  
else else body  
main end

70) main begin  
else if body  
main end

71) main begin  
if - body  
main end

72) main begin  
if - body  
main end

73) main begin  
else begin  
else if body

74) main begin  
else begin  
else else begin

75) main begin  
else else if body  
else else if body  
else end

76) main begin  
else else if body  
else else if body  
else end

77) main begin  
else else if body  
else else if body  
else end

78) main begin  
else else if body  
else else if body  
else end

79) main begin  
else else begin  
else else if body  
else else end  
main end

80) main begin  
else else if body  
main end

81) main begin  
else else if body  
main end

82) main begin  
else else if body  
main end

83) main begin  
else else if body  
main end

84) main begin  
else else if body  
else else if body  
else end

85) main begin  
else else if body  
else else if body  
main end

86) main begin  
else else if body  
else else if body  
else end

87) main begin  
else else if body  
else else if body  
main end

88) main begin  
else begin  
else else if body  
else end

89) main begin  
else else if body  
main end

90) main begin  
else else if body  
main end

91) main begin  
if : 2

92) main begin  
else : 2

93) main begin  
if : 1

94) main begin  
if : 2

95) main begin  
else : 2

96) main begin  
else : 1

91) main begin  
else: 2  
main end: 4

92) main begin  
if: 2  
main end: 3

93) main begin  
else: 3  
main end: 5

94) main begin  
from if  
main end

95) main begin  
main end

96) main begin  
from if  
main end

97) main begin  
main end

98) Compilation Error

99) main begin  
from if  
main end

100) main begin  
main end

101) main begin  
from if  
main end: false

102) main begin  
from if  
main end!

103) main begin  
main end:

104) main begin  
from if  
main end:

105) main begin  
main end

106) main begin  
from if 1  
from if 2

from if 3  
from if 4

main end:

107) main begin  
from if 1  
from if 2

from if 3  
from if 4: 10

main end:

108) Compilation Error

109) main begin  
from if 2

from if 3

main end!

110) main begin

from if 2

from if 3

main end:

111) main begin

from if 1

from if 2

from if 3

main end:

112) main begin

main end:

113) main begin

from if 1

from if 2

from if 3

main end:

114) main begin

main end

115) main begin

from if 1

from if 2

from if 3

main end:

116) main begin

main end:

117) main begin

main end:

118) main begin

main end:

119) main begin

main end:

120) main begin

from if 1

from if 2

from if 3

main end:

121) main begin

main end: true

122) main begin

main end: false

123) main begin

main end: true

124) main begin

main end: false

125) Compilation Error

126) main begin

from if 1

from if 2

from if 3

main end: 10

127) main begin

~~if 1 begin~~

~~if 1 end~~

~~if 2 begin~~

~~if 2 end~~

main ~~end~~

128) main begin  
if 2 begin  
if 2 end  
main end

129) main begin  
if 2 begin  
if 2 end  
main end

130) main begin  
main end

131) main begin  
main end

132) main begin  
if 2 begin  
if 2 begin  
if 2 end  
if 2 end  
main end

133) main begin  
if 2 begin  
if 2 end  
main end

134) main begin  
if 2 begin  
if 2 begin  
if 2 end  
main end

135) main begin  
if 2 begin  
if 2 begin  
if 2 end  
main end

136) main begin  
if 2 begin  
if 2 end  
main end

137) main begin  
if 2 begin  
main end

138) main begin  
if 2 begin  
main end

139) main begin  
if 2 begin  
main end

140) main begin  
main end.

141) main begin  
main end

142) main begin  
if 2 begin  
main end

143) main begin  
if 2 begin  
main end

144) main begin  
main end  
if 2 begin  
if 2 end  
if 2 end

145) main begin  
if 2 begin  
if 2 end  
if 3 begin  
main end

146) main begin  
if 2 begin  
if 2 end  
if 3 begin  
main end

147) main begin  
if 2 end  
if 3 begin  
main end

148) main begin  
main end  
if 2 begin  
if 2 end  
main end

149) main begin  
if 2 begin  
if 2 end  
main end

150) main begin  
if 2 begin  
if 2 begin  
if 2 end  
if 2 end  
main end.

(151) main begin  
if 2 begin  
if 2 begin  
if 2 end  
if 2 end

152) main begin  
if 2 begin  
if 2 begin  
if 2 end  
if 2 end  
main end

153) main begin  
if 2 begin  
if 2 end  
if 3 begin  
main end

154) main begin  
if 2 begin  
if 2 end  
main end

155) main begin  
main end  
if 2 begin  
if 2 end  
main end

156) main begin  
main end  
if 2 begin  
if 2 begin  
if 2 end

157) main begin  
main end  
if 2 begin  
if 2 end  
main end

158) main begin  
main end

## ★ (08-ternary-Operator)

- 1) 10
- 2) 20
- 3) 10
- 4) 20
- 5) 20
- 6) 10
- 7) min b/w 200 and 300 is 200
- 8) min b/w 200 and 100 is 100
- 9) min value among 10, 80, 15 is 10

## ★ (09-loops break and continue)

- 1) main begin  
loop body: 1  
loop body: 2  
loop body: 3  
loop body: 4  
loop body: 5  
main end
- 2) main begin  
main end
- 3) main begin  
loop body: 1  
loop body: 2  
--- : 41  
loop body: 2  
loop body: 2  
--- : 41  
loop body: 3  
loop body: 3  
--- : 41
- 4.) compile time error
- 5) main begin  
loop body: 1  
loop body: 3  
loop body: 5  
loop body: 7  
loop body: 9  
main end!

- 6.) main begin  
loop body: 10  
loop body: 9  
loop body: 8  
loop body: 7  
loop body: 6  
loop body: 5  
loop body: 4  
loop body: 3  
loop body: 2  
loop body: 1  
main end:
- 7.) main begin  
loop body: 10  
loop body: 7  
loop body: 4  
loop body: 1  
main end:
- 8.) main begin  
loop body: 10  
loop body: 7  
loop body: 4  
loop body: 1  
main end:
- 9.) main begin  
loop body: 1  
loop body: 5  
loop body: 25  
main end:
- 10.) main begin  
loop body: 1  
loop body: 3  
loop body: 9  
loop body: 27  
loop body: 81  
loop body: 243  
main end:
- 11.) main begin  
loop body: 5000  
loop body: 500  
loop body: 50  
loop body: 5  
main end:
- 12.) main begin  
loop body: 5000  
loop body: 500  
loop body: 50  
loop body: 5  
main end:
- 13.) main begin  
loop body: 1  
loop body: 2  
loop body: 3  
loop body: 4  
loop body: 5  
main end: 6

14.) main begin

loop body: 1

loop body: 2

loop body: 3

loop body: 4

loop body: 5

main end: 6

15.) main begin

main end: 10

16.) main begin

loop body: 4

loop body: 5

main end: 6

17.) main begin

loop body: 1

loop body: 2

loop body: 3

loop body: 4

loop body: 5

main end: 6

18.) main begin

loop body: 1

loop body: 2

loop body: 3

loop body: 4

loop body: 5

loop body: 6

19.) compilation error

20.) infinite loop

21.) main begin

loop body: 2, 20

loop body: 2, 23

loop body: 3, 26

loop body: 4, 29

loop body: 5, 32

loop body: 6, 35

loop body: 7, 38

loop body: 8, 41

loop body: 9, 44

loop body: 10, 47

22.) main begin

loop body: 1, 20

loop body: 2, 23

loop body: 3, 26

loop body: 4, 29

loop body: 5, 32

loop body: 6, 35

loop body: 7, 38

loop body: 8, 41

loop body: 9, 44

loop body: 10, 47

loop body: 11, 50

loop body: 12, 53

loop body: 13, 56

loop body: 14, 59

23.) main begin

loop body: 1, 20

loop body: 2, 23

loop body: 3, 26

loop body: 4, 29

loop body: 5, 32

loop body: 6, 35

loop body: 7, 38

loop body: 8, 41

loop body: 9, 44

loop body: 10, 47

loop body: 11, 50

loop body: 12, 53

loop body: 13, 56

loop body: 14, 59

24.) main begin

loop body: 1, 20

loop body: 2, 23

loop body: 3, 26

loop body: 4, 29

loop body: 5, 32

loop body: 6, 35

loop body: 7, 38

loop body: 8, 41

loop body: 9, 44

loop body: 10, 47

loop body: 11, 50

loop body: 12, 53

loop body: 13, 56

loop body: 14, 59

25.) main begin

init

boolean status for 1 is true

loop body: 1

before change: 1

after change: 2

boolean status for 2 is true

loop body: 2

before change: 2

after change: 3

boolean status for 3 is true

loop body: 3

before change: 3

after change: 4

boolean status for 4 is true

loop body: 4

before change: 4

after change: 5

boolean status for 5 is true

loop body: 5

26.) main begin

loop body: 1, 20

loop body: 2, 23

loop body: 3, 26

loop body: 4, 29

loop body: 5, 32

loop body: 6, 35

Before change: 5

after change: 6

boolean status for b is false

main end

26.) compile time error

27.) compile time error

28.) main begin

loop body Stmt1: 0

loop body Stmt2: 1

loop body Stmt3: 2

loop body Stmt4: 3

loop body Stmt5: 4

loop body Stmt6: 5

loop body Stmt7: 6

main end

29.) main begin

loop body Stmt8: 6

loop body Stmt9: 6

main end

30.) Compile time error

31.) compile time error

32.) main begin

loop begin: 1

loop end: 1

loop begin: 2

loop End: 2

loop begin: 3

loop end: 3

loop begin: 4

loop end: 4

loop begin: 5

loop end: 5

loop begin: 6

loop end: 6

loop begin: 7

loop end: 7

loop begin: 8

loop end: 8

loop begin: 9

loop end: 9

loop begin: 10

loop end: 10

main loop end

33.) main begin

loop begin: 1

loop end: 1

loop begin: 2

loop end: 2

loop begin: 3

loop end: 3

loop begin: 4

loop end: 4

loop begin: 5

loop end: 5

loop begin: 6

loop end: 6

loop begin: 7

loop end: 7

loop begin: 8

loop end: 8

loop begin: 9

loop end: 9

loop begin: 10

loop end: 10

main end

34.) main begin

loop begin: 1

loop begin: 2

loop begin: 3

loop begin: 4

loop begin: 5

loop end: 5

loop begin: 6

loop end: 6

loop begin: 7

loop end: 7

loop begin: 8

loop end: 8

loop begin: 9

loop end: 9

loop begin: 10

loop end: 10

main end

35.) compile time error

36.) main begin

loop begin: 1

loop begin: 2

loop end: 2

loop begin: 3

loop end: 6

loop begin: 4

loop end: 4

loop begin: 5

loop end: 5

loop begin: 6

loop end: 6

loop begin: 7

loop end: 7

36.) main begin

loop begin: 2

if begin :

loop begin: 2

if begin

loop begin: 3

if begin :

loop begin: 4

if begin

loop begin: 5

loop end: 5

loop begin: 6

loop end: 6

loop begin: 7

loop end: 7

loop begin: 8

loop end: 8

loop begin: 9

loop end: 9

loop begin: 10

loop end: 10

main end

37) main begin

loop begin: 1

loop end: 1

loop begin: 2

loop end: 2

loop begin: 3

loop end: 3

loop begin: 4

if begin

main end

38) Compile time error

39) Compile time error

40) main begin

Outer loop begin: 1,

inner loop begin: 1, 101

inner loop begin: 1, 102

inner loop begin: 1, 103

inner loop begin: 1, 104

inner loop begin: 1, 105

Outer loop ~~begin: 1~~

Outer loop begin: 2

inner loop begin: 2, 101

inner loop begin: 2, 102

inner loop begin: 2, 103

inner loop begin: 2, 104

inner loop begin: 2, 105

Outer loop ~~begin: 2~~

Outer loop begin: 3

inner loop begin: 3, 101

inner loop begin: 3, 102

inner loop begin: 3, 103

inner loop begin: 3, 104

inner loop begin: 3, 105

Outer loop end: 3

Outer loop begin: 4

inner loop begin: 4, 101

inner loop begin: 4, 102

inner loop begin: 4, 103

inner loop begin: 4, 104

inner loop begin: 4, 105

Outer loop end: 4

Outer loop begin: 5

inner loop begin: 5, 101

inner loop begin: 5, 102

inner loop begin: 5, 103

inner loop begin: 5, 104

inner loop begin: 5, 105

Outer loop end: 5

Outer loop begin: 6

inner loop begin: 6, 101

inner loop begin: 6, 102

inner loop begin: 6, 103

inner loop begin: 6, 104

inner loop begin: 6, 105

Outer loop end: 6

Outer loop begin: 7

inner loop begin: 7, 101

inner loop begin: 7, 102

inner loop begin: 7, 103

inner loop begin: 7, 104

inner loop begin: 7, 105

Outer loop ~~begin: 7~~

Outer loop begin: 8

inner loop begin: 8, 101

inner loop begin: 8, 102

inner loop begin: 8, 103

inner loop begin: 8, 104

inner loop begin: 8, 105

Outer loop end: 8

Outer loop begin: 9

inner loop begin: 9, 101

inner loop begin: 9, 102

inner loop begin: 9, 103

inner loop begin: 9, 104

inner loop begin: 9, 105

Outer loop end: 9

Outer loop begin: 10

inner loop begin: 10, 101

inner loop begin: 10, 102

inner loop begin: 10, 103

inner loop begin: 10, 104

inner loop begin: 10, 105

Outer loop end: 10

Outer loop begin: 11

(41.) main begin

(42.) Outer loop begin: 1

inner loop begin: 1, 101

inner loop end: 1, 102

inner loop begin: 1, 102

inner loop end: 1, 102

inner loop begin: 1, 103

inner loop end: 1, 103

inner loop begin: 1, 104

inner loop end: 1, 104

inner loop begin: 1, 105

inner loop end: 1, 105

Outer loop end: 1

Outer loop begin: 2

inner loop begin: 2, 101

inner loop end: 2, 101

inner loop begin: 2, 102

inner loop end: 2, 102

inner loop begin: 2, 103

inner loop end: 2, 103

inner loop begin: 2, 104

```

inner loop begin: 2, 104
inner loop end: 2, 104
inner loop begin: 2, 105
inner loop end: 2, 105
Outer loop end: 2
Outer loop begin: 3
inner loop begin: 3, 101
inner loop end: 3, 101
inner loop begin: 3, 102
inner loop end: 3, 103
inner loop begin: 3, 103
inner loop end: 3, 103
inner loop begin: 3, 104
inner loop end: 3, 104
inner loop begin: 3, 105
inner loop end: 3, 105
inner loop begin: 3, 105
inner loop end: 3, 105
Outer loop begin: 3
Outer loop end: 3
Outer loop begin: 4
Inner loop begin: 4, 101
inner loop end: 4, 101
inner loop begin: 4, 102
inner loop end: 4, 102
inner loop begin: 4, 103
inner loop end: 4, 103
inner loop begin: 4, 103
inner loop end: 4, 103
inner loop begin: 4, 104
inner loop end: 4, 104
inner loop begin: 4, 105
inner loop end: 4, 105
Outer loop end: 4
Outer loop begin: 5
inner loop begin: 5, 101
inner loop end: 5, 101
inner loop begin: 5, 102
inner loop end: 5, 102
inner loop begin: 5, 103
inner loop end: 5, 103
inner loop begin: 5, 104
inner loop end: 5, 104
inner loop begin: 5, 105
inner loop end: 5, 105
inner loop begin: 5, 105
inner loop end: 5, 105
Outer loop begin: 5
Outer loop end: 5
Outer loop begin: 6
inner loop begin: 6, 101
inner loop end: 6, 101
inner loop begin: 6, 102
inner loop end: 6, 102
inner loop begin: 6, 103
inner loop end: 6, 103
inner loop begin: 6, 104
inner loop end: 6, 104
inner loop begin: 6, 105
inner loop end: 6, 105
Outer loop end: 6
Outer loop begin: 7
inner loop begin: 7, 101
inner loop end: 7, 101
inner loop begin: 7, 102
inner loop end: 7, 102
inner loop begin: 7, 103
inner loop end: 7, 103
inner loop begin: 7, 103
inner loop end: 7, 103

```

inner loop begin: 7, 104 . Outer loop begin: 10  
inner loop end: 7, 104 inner loop begin: 10, 101  
inner loop begin: 7, 105 inner loop end: 10, 101  
inner loop end: 7, 105 inner loop begin: 10, 102  
Outer loop end: 7 inner loop end: 10, 102  
Outer loop begin: 8, inner loop begin: 10, 103  
inner loop begin: 8, 101 inner loop end: 10, 103  
inner loop end: 8, 101 inner loop begin: 10, 104  
inner loop begin: 8, 102 inner loop end: 10, 104  
inner loop end: 8, 102 inner loop begin: 10, 105  
inner loop begin: 8, 103 inner loop end: 10, 105  
inner loop end: 8, 103 Outer loop end: 10  
inner loop begin: 8, 104, main end  
inner loop end: 8, 104 [43] main begin  
inner loop begin: 8, 105 , 44 Outer loop begin: 1  
inner & loop end: 8, 105:  
Outer loop end : 8 : inner loop begin: 2, 101  
Outer loop begin: 9 inner loop end: 2, 101  
inner loop begin: 9, 101 inner loop begin: 2, 102  
inner loop end: 9, 101 inner loop end: 2, 102  
inner loop begin: 9, 102 inner loop begin: 1, 103  
inner & loop end: 9, 102 Outer loop end: 1  
inner loop begin: 9, 103 Outer loop begin: 2  
inner loop end: 9, 103 inner loop begin: 2, 101  
inner loop begin: 9, 104 inner loop end: 2, 101  
inner loop end: 9, 104 inner loop begin: 2, 102  
inner loop begin: 9, 105 inner loop end: 2, 102  
inner loop end: 9, 105 inner loop begin: 2, 103  
Outer loop end: 9 Outer loop end: 2

Outer loop begin : 3      Outer loop begin : 7  
 inner loop begin : 3, 101      inner loop begin : 7, 101  
 inner loop end : 3, 101      inner loop end : 7, 101  
 inner loop begin : 3, 102      inner loop begin : 7, 102  
 inner loop end : 3, 102      inner loop end : 7, 102  
 inner loop begin : 3, 103      inner loop begin : 7, 103  
 Outer loop end : 3      Outer loop end : 7  
 Outer loop begin : 4      Outer loop begin : 8  
 inner loop begin : 4, 101      inner loop begin : 8, 101  
 inner loop end : 4, 101      inner loop end : 8, 101  
 inner loop begin : 4, 102      inner loop begin : 8, 102  
 inner loop end : 4, 102      inner loop end : 8, 102  
 inner loop begin : 4, 103      inner loop begin : 8, 103  
 Outer loop end : 4      Outer loop end : 8  
 Outer loop begin : 5      Outer loop begin : 9  
 inner loop begin : 5, 101      inner loop begin : 9, 101  
 inner loop end : 5, 101      inner loop end : 9, 101  
 inner loop begin : 5, 102      inner loop begin : 9, 102  
 inner loop end : 5, 102      inner loop end : 9, 102  
 inner loop begin : 5, 103      inner loop begin : 9, 103  
 Outer loop end : 5      Outer loop end : 9  
 Outer loop begin : 6      Outer loop begin : 10  
 inner loop begin : 6, 101      inner loop begin : 10, 101  
 inner loop end : 6, 101      inner loop end : 10, 101  
 inner loop begin : 6, 102      inner loop begin : 10, 102  
 inner loop end : 6, 102      inner loop end : 10, 102  
 inner loop begin : 6, 103      inner loop begin : 10, 103  
 Outer loop end : 6      Outer loop end : 10  
 main end

45.) main begin      Outer loop begin : 4  
 Outer loop begin : 7      inner loop begin : 4, 101  
 inner loop begin : 7, 102      inner loop end : 4, 101  
 inner loop end : 7, 102      inner loop begin : 4, 102  
 inner loop begin : 7, 102      inner loop end : 4, 102  
 inner loop end : 7, 102      inner loop begin : 4, 103  
 inner loop begin : 7, 103      inner loop end : 4, 103  
 inner loop end : 7, 103      Outer loop begin : 5  
 main end      inner loop begin : 5, 101  
 inner loop end : 5, 101      inner loop begin : 5, 102  
 46.) main begin      inner loop end : 5, 102  
 Outer loop begin : 1      inner loop begin : 5, 103  
 inner loop begin : 1, 102      inner loop end : 5, 103  
 inner loop end : 1, 102      Outer loop begin : 6  
 inner loop begin : 1, 102      inner loop begin : 6, 101  
 inner loop end : 1, 102      inner loop end : 6, 101  
 inner loop begin : 1, 103      inner loop begin : 6, 102  
 inner loop end : 1, 103      inner loop end : 6, 102  
 Outer loop begin : 2      Outer loop begin : 7  
 inner loop begin : 2, 101      inner loop begin : 6, 103  
 inner loop end : 2, 101      inner loop end : 6, 103  
 inner loop begin : 2, 102      Outer loop begin : 7  
 inner loop end : 2, 102      inner loop begin : 7, 101  
 inner loop begin : 2, 103      inner loop end : 7, 101  
 inner loop end : 2, 103      inner loop begin : 7, 102  
 Outer loop begin : 3      inner loop end : 7, 102  
 inner loop begin : 3, 101      inner loop begin : 7, 103  
 inner loop end : 3, 101      inner loop end : 7, 103  
 inner loop begin : 3, 102      Outer loop begin : 8  
 inner loop end : 3, 102      inner loop begin : 8, 101  
 inner loop begin : 3, 103      inner loop end : 8, 101  
 inner loop end : 3, 103      inner loop begin : 8, 102

inner loop end: 8,102

inner loop begin: 8,103

Outer loop begin: 9

inner loop begin: 9,101

inner loop end: 9,101

inner loop begin: 9,102

inner loop end: 9,102

inner loop begin: 9,103

Outer loop begin: 10

inner loop begin: 10,101

inner loop end: 10,101

inner loop begin: 10,102

inner loop end: ~~10,102~~~~10,103~~~~10,103~~

inner loop begin: 10,103

main end

47) main begin

10

90

20

70,

35

28

main end

48) main begin

hello

test

123

567

true

#\$%

main end

49) compile time error

50) compile time error

51) main begin

loop begin: 2

loop end: 1

loop begin: 2

loop end: 2

loop begin: 3

loop end: 3

loop begin: 4

loop begin: 5

loop begin: 6

loop begin: 7

loop begin: 8

loop begin: 9

main end: 6

main end: 7

main end: 8

infinite loop

61) main begin

loop begin: 1

loop end: 1

loop begin: 2

loop end: 2

loop begin: 3

loop end: 3

57) main begin

loop begin: 1

loop begin: 2

loop begin: 3

loop begin: 4

loop begin: 5

loop end: 6

main end: 7

58) main begin

loop begin: 2

loop begin: 3

loop begin: 4

loop begin: 5

loop begin: 6

loop begin: 7

loop begin: 8

loop begin: 9

loop begin: 10

loop begin: 11

loop begin: 12

loop begin: 13

loop begin: 14

loop begin: 15

loop begin: 16

loop begin: 17

loop begin: 18

loop begin: 19

loop begin: 20

loop begin: 21

loop begin: 22

loop begin: 23

loop begin: 4

loop begin: 4

loop begin: 5

loop begin: 5

main end: 6

62) loop end: 2

loop begin: 2

loop end: 2

loop begin: 3

main end: 3

63) main begin

loop begin: 1

inner loop begin: 1,101

inner loop end: 1,101

inner loop begin: 1,102

inner loop end: 1,102

inner loop begin: 1,103

inner loop end: 1,103

inner loop begin: 1,104

inner loop end: 1,104

loop end: 1

loop begin: 2

inner loop begin: 2,101

inner loop end: 2,101

inner loop begin: 2,102

inner loop end: 2,102

inner loop begin: 2,103

inner loop end: 2,103

loop end: 2

loop begin: 3

inner loop begin : 3,101  
inner loop end : 3,101

inner loop begin : 3,102

inner loop end : 3,102

inner loop begin : 3,103

inner loop end : 3,103

loop end : 3

loop begin : 4

inner loop begin : 4,101

inner loop end : 4,101

inner loop begin : 4,102

inner loop end : 4,102

inner loop begin : 4,103

inner loop end : 4,103

loop end : 4

loop begin : 5

inner loop begin : 5,101

inner loop end : 5,101

inner loop begin : 5,102

inner loop end : 5,102

inner loop begin : 5,103

inner loop end : 5,103

loop end : 5

main end : 6

64) main begin

loop begin : 1

inner loop begin : 1,101

inner loop end : 1,102

inner loop begin : 1,102

loop end : 1

loop begin : 2

inner loop begin : 2,101

inner loop end : 2,101

inner loop begin : 2,102

loop end : 2

loop begin : 3

inner loop begin : 3,101

inner loop end : 3,101

inner loop begin : 3,102

loop end : 3

loop begin : 4

inner loop begin : 4,101

inner loop end : 4,101

inner loop begin : 4,102

loop end : 4

loop begin : 5

inner loop begin : 5,101

inner loop end : 5,101

inner loop begin : 5,102

loop end : 5

main end : 6

65) main begin

loop begin : 1

inner loop begin : 1,101

inner loop end : 1,101

inner loop begin : 1,102

inner loop begin : 1,103

inner loop end : 1,103

loop end : 1

loop begin : 2

inner loop begin : 2,101

inner loop end : 2,101

inner loop begin : 2,102

inner loop end : 2,103

inner loop begin : 2,104

loop end : 2

loop begin : 3

inner loop begin : 3,101

inner loop end : 3,101

inner loop begin : 3,102

inner loop end : 3,103

inner loop begin : 3,104

loop end : 3

loop begin : 4

inner loop begin : 4,101

inner loop end : 4,101

inner loop begin : 4,102

inner loop end : 4,103

inner loop begin : 4,104

loop end : 4

loop begin : 5

inner loop begin : 5,101

inner loop end : 5,101

inner loop begin : 5,102

inner loop begin : 5,103

inner loop end : 5,103

loop end : 5

main end : 6

66) compile time error

67) main begin

loop begin : 1

inner loop begin : 1,101

inner loop end : 1,101

inner loop begin : 1,102

inner loop end : 1,102

inner loop begin : 1,103

inner loop end : 1,103

inner loop begin : 1,104

inner loop end : 1,101

inner loop begin : 1,102

inner loop end : 1,102

inner loop begin : 1,103

inner loop end : 1,103

inner loop begin : 1,104

inner loop end : 1,101

inner loop begin : 1,102

inner loop end : 1,102

inner loop begin : 1,103

inner loop end : 1,103

inner loop begin : 1,104

inner loop end : 1,101

inner loop begin : 1,102

## (II - Methods)

68) main begin

loop begin: 1

inner loop begin: 1, 101

inner loop end: 1, 101

inner loop begin: 1, 102

main end

69) main begin

body begin: 1

body end : 1

body begin : 2

body end : 2

body begin : 3

body end : 3

body begin : 4

body end : 4

body begin: 5

body end: 5

main end

70) main begin

body begin: 10

body end: 10

main end

71) compile time error

72) compile time error

7) from main

8) from main

9) from main

10) main begin

from test

main end

11) main begin

from test

12) main begin

from test

13) main begin

from test

14) main begin

from test

15) main begin

from test

16) main begin

from test

17) main begin

from test

18) main begin

from test

19) main begin

from test

20) main begin

from test

21) main begin

from test

22) main begin

from test

23) main begin

7) main  
from test  
begin

8) from test

9) from test

10) from test

11) from test

12) from test

13) from test

14) from test

15) from test

16) from test

17) from test

18) from test

19) from test

20) from test

21) from test

22) from test

23) from test

24) main end

25) from test

26) from test

27) from test

28) main end

29) from test

30) from test

31) main end

32) from test

33) from test

34) main end

35) from test

36) main end

37) from test

38) main end

39) from test

40) main end

41) from test

42) main end

43) from test

44) main end

45) from test

46) main end

47) from test

48) main end

49) from test

50) main end

51) from test

52) main end

53) from test

54) main end

55) from test

56) main end

57) from test

58) main end

59) from test

60) main end

61) from test

62) main end

63) from test

64) main end

65) from test

66) main end

67) from test

68) main end

69) from test

70) main end

71) from test

72) main end

73) from test

74) main end

75) from test

76) main end

77) from test

78) main end

79) from test

80) main end

81) from test

82) main end

83) from test

84) main end

85) from test

86) main end

87) from test

88) main end

89) from test

90) main end

91) from test

92) main end

93) from test

94) main end

95) from test

96) main end

97) from test

98) main end

99) from test

100) main end

101) from test

102) main end

103) from test

104) main end

105) from test

106) main end

107) from test

108) main end

109) from test

110) main end

111) from test

112) main end

113) from test

114) main end

115) from test

116) main end

117) from test

118) main end

119) from test

120) main end

121) from test

122) main end

123) from test

124) main end

125) from test

126) main end

127) from test

128) main end

129) from test

130) main end

131) from test

132) main end

133) from test

134) main end

135) from test

136) main end

137) from test

138) main end

139) from test

140) main end

141) from test

142) main end

143) from test

144) main end

145) from test

146) main end

147) from test

148) main end

149) from test

150) main end

151) from test

152) main end

153) from test

154) main end

155) from test

156) main end

157) from test

158) main end

159) from test

160) main end

161) from test

162) main end

163) from test

164) main end

165) from test

166) main end

167) from test

168) main end

169) from test

170) main end

171) from test

172) main end

173) from test

174) main end

175) from test

176) main end

177) from test

178) main end

179) from test

180) main end

181) from test

182) main end

183) from test

184) main end

185) from test

186) main end

187) from test

188) main end

189) from test

190) main end

191) from test

192) main end

193) from test

194) main end

195) from test

196) main end

197) from test

198) main end

199) from test

200) main end

from test  
 from test 1 end  
 from test 2  
 main end  
 12) Run Time Error  
 13) main  
 14) compile time error  
 15) compile time error  
 16) main begin  
 if block  
 main begin  
 test begin  
 if block  
 main end  
 18) compile time error  
 19) Hello world  
 20) compile time error  
 21) compile time error  
 22) compile time error  
 23) compile time error  
 24) from main  
 25) main begin  
 from test  
 main end  
 26) main begin  
 from test  
 in the main: 100  
 main end

27) compile time error  
 28) main begin  
 from test  
 in the main: 100  
 main end  
 29) main begin  
 from test  
 100 in the main:  
 main end  
 30) main begin  
 from test  
 from test  
 100 in the main:  
 from test  
 210 in the main:  
 from test  
 from test  
 310 in the main:  
 from test  
 from test  
 370 in the main:  
 from test  
 from test  
 410 in the main:  
 from test  
 main end : 100  
 32) main begin  
 from test  
 main end : 1.5

33) main begin  
 from test  
 main end: true  
 34) main begin  
 from test  
 main end: \$  
 35) compile time error  
 36) main begin  
 from test  
 main end: 100  
 37) main begin  
 from test 1  
 from test 2  
 main end: 200  
 38) main begin  
 from test 2  
 main end: 400  
 39) main begin  
 from test 2  
 main end: Hello  
 40) main begin  
 from test 2  
 main end: hello to all  
 41) main begin  
 main end  
 42) compile time error  
 43) compile time error  
 44) main begin  
 from test  
 main end  
 45) main begin  
 from test: 200  
 main end  
 46) compile time error  
 47) main begin  
 from test: 200  
 main end  
 48) compile time error  
 49) compile time error  
 50) main begin  
 from test: 200  
 main end:  
 51) main begin  
 from test: 200, 4  
 main end:  
 52) compile time error  
 53) compile time error  
 54) compile time error  
 55) compile time error  
 56) main begin  
 from test  
 main end

57) main begin  
from test: 10  
from test: false  
from test: 30  
main end:

58) compile time error

59) main begin  
from test: 30  
main end:

60) main begin  
from test: 10  
from test: 10

61) main begin  
from test: 10  
main end: 10

62) main begin  
from test: 21  
main end: 7

63) main begin  
from test: 21  
main end: 1

64) main begin  
from test: 2  
main end: 2

65) main begin  
from test: 7  
main end: 0

66) main begin  
from test: 3  
main end: 2  
67) main begin  
from test: 9  
main end: 4

68) main begin  
from test: 2  
main end: 2

69) main begin  
from test: 0  
main end: 0

70) main begin  
from test: 4  
main end: 2

71) main begin  
from test: 1  
main end: 2, 7

72) main begin  
from test: 2  
main end: 2

73) main begin  
from test: 2  
main end: 2, 3

74) main begin  
from test: 2  
main end: 2, 2

75) main begin  
from test: 7  
main end: 2, 4

76) main begin  
from test: 2  
main end: 2, 5

77) main begin  
main end: 9, 84

78) 7  
52

# ★ (10-Switchcase-Answers)

- 1.) Wednesday
- 2.) Good
- 3.) Odd
- 4.) First month of the year
- 5.) Value is 10  
Value is 20  
Value is neither 10 nor 20
- 6.) choice 3
- 7.) Value is 10  
Value is 20  
Value is not recognized
- 8.) Two  
These
- 9.) Value is 2
- 10.) Value is 7
- 11.) Other day
- 12.) compilation error
- 13.) Red fruit
- 14.) Value is 10
- 15.) Small numbers  
Medium numbers  
Large numbers
- 16.) Excellent  
Good  
Average  
Fail
- 17.) compilation error (No output)

(18) Value is 10  
Value is 20

- 19.) first day of the week
- 20.) Value is 1  
Value is 2
- 21.) Value is 1  
Value is 2  
Default case
- 22.) Five  
ten  
Default case
- 23.) Default case  
Value is 1  
Value is 2
- 24.) Ten  
Hundreds  
Default case
- 25.) No output
- 26.) Ten  
Default case
- 27.) B ~~C~~  
C  
Default case
- 28.) Three  
four  
Default case
- 29.) Value is 10
- 30.) Value is 10  
Value is 10  
Value is 10
- 31.) Two  
Two  
Two
- 32.) Five  
Five
- 33.) Seven
- 34.) Value is 5  
Outside switch
- 35.) four  
six  
Default case
- 36.) compilation error
- 37.) compilation error
- 38.) Two  
Two  
Default case
- 39.) One  
Two  
Default case
- 40.) No output
- 41.) Two  
Three  
four
- 42.) Three  
four  
Default case
- 43.) Five  
Ten  
Default case
- 44.) Three  
Two  
Three  
Default case
- 45.) One  
Two  
Three  
Default case

46) five  
Ten

Default case

47) Default case  
Two

48) One

Outside switch

49) Value is 7

50) compilation Error

51) Value is f

Value is 7

52) five

Ten

53) Default case

Two

54) five

Ten

Outside switch

55) Two

Three

Default case

56) one

57) Default case

Outside switch

58) Value is 10

Value is 7

Outside switch

59) five

Ten

Outside switch

60) Two

Three

Default case

Outside switch