-1259.125

X = (1259)10   = (10011101011)2
Y = (0.125)10   = (0001)2

(10011101011.0001)2
(1.00111010110001)2

SINGLE PRECISION FORMAT:
S = 1
E = 10 + 127 = 137 = (10001001)2
M = 00111010110001

S   E   M
1   10001001   00111010110001

-10.125

X = (10)10   = (1010)2
Y = (0.125)10   = (0001)2

(1010.0001)2
(1.00100001)2

SINGLE PRECISION FORMAT:
S = 1
E = 3 + 127 = 130 = (10000010)2
M = 00100001

S   E   M
1 10000010 00100001

```
1  -309.1875
2
3  X = (309)10       = (100110101)2
4  Y = (0.1875)10  = (0011)2
5
6  (100110101.0011)2
7  (1.001101010011)2
8
9  DOUBLE PRECISION FORMAT:
10 S = 1
11 E = 8 + 1023 = 1031 = (10000000111)2
12 M = 001101010011
13
14 S            E                M
15 1     10000000111     001101010011
```

```
1  -20.25
2
3  X = (20)10        = (10100)2
4  Y = (0.25)10      = (01)2
5
6  (10100.01)2
7  (1.010001)2
8
9  SINGLE PRECISION FORMAT:
10 S = 1
11 E = 4 + 127 = 131 = (10000010)2
12 M = 10000011
13
14 S      E             M
15 1 10000011 010001
```