





```
(a)
      -0.625 = (-0.101)_2 = -1.01 \times 2'
        5=1, e=1, f=01
        127+1=128= 1000 0000
         single precission:
       1 1000 0000 010 0000 0000 0000 0000
 (b) (i) 1.0101010000
  rounding up 1.0101100000
  rounding down 1.010100 0000
  nearest even 1-010 100 0000
   (ii) 1.0011100001
   up 1-0011110000
   down 1.0011100000
nearest even 1.0011100000
   (iii) 1.0100110000
  up 1.010100000
  down 1.0100100000
nearest even 1.010100000
  (IV) 1.0011010001
   up 1.0011100000
   down 1.00/1000000
neavest even 1.001 1000
```

41 1



