

```
codeword2 =
                                                       codeword2=codeword
                                    codeword2 =
                  codeword2 =
                                                       %parity용 B2
    0
                                                       for i=1:K
                                         0
     1
                       0
                                                           if mod(A(i,:)*codeword,2) ==1
     0
                       Ω
                                                               codeword2(a(i))=0
     1
                       1
                                                           end
   codeword2 =
                                                   codeword vs codword2(revision)
         0 0
                       0
                                0
                                                   H*codeword=0. -> no error.
   >> codeword
                                                   "if mod(A(i,:)*codeword,2)==1" : decision about
   codeword =
                                                   error.
         1
                1
                        0
                                1
                                        0
                                                           qwe =
                                                                               >> qwe2
    qwe=A*codeword2 %qwe= H*codeword
                                                                                qwe2
    qwe=mod(qwe,2)
                                                                     0
    qwe2=A2*codeword2 %qwe2= rref(H) * codeword
                                                                                         0
                                                                     0
                                                                                          \circ
    qwe2 = mod(qwe2, 2)
                                                                     0
                                                                                          0
                H*codeword = 0.
                                                                     0
                                                                                          \cap
                                                       А
   A2 =
                                                              1
                                                                       Ο
                                                                               1
                                                                                       0
                                                                                                1
                  0
                          1
                                  0
                                          1
                          0
                                                              0
                                                                       1
                                                                               0
                                                                                        0
                                                                                                1
          0
                  0
                                  1
                                          1
                                           0
                                                                                        1
                                                                                                1
          0
                  1
                          0
                                  1
                                                                               0
                                                                                                0
                  basic matrix
                                                                       rref matrix
                                                       index<u>=</u>0
      if qwe(i,1)==0
                                                       for i=1:K
          index<mark>≡</mark>index+1
                                                          if qwe2(i,1)==0
      end
                                                             index<u>=</u>index+1
                                                          end
   if index==K
                                                       if index==K
      fprintf('parity check *codeword = no error')
                                                          fprintf('rref parity check *codeword = no error\n')
  index
                                                       index
                                                            3
        3
                                                       index =
  index =
                                                       rref parity check *codeword = no error
  parity check *codeword = no error
 %% BPSK
 fprintf('bpsk전 codeword값') %BPSK 전
 codeword2
bpsk전 codeword값
                           codeword2
                                                   BPSK
codeword2 =
                                                   - '1'값은 -1로, '0'은 1로 바꾸었다.
                                   -1
      1
                                     1
      0
                                   -1
      1
      0
                                     1
      0
                                     1
```