```
1:      /* generate data source */
2:      for i←1 to N do
3:          Generate binary data sources Ds
4:      end for
5:      /* spreading encoding */
6:      Convert Ds to different spreading codes
7:      /* add noise, demodulation,
        oversampling and correlation*/
8:      for i←1 to N do
9:          Add AWGN noise
10:         Do OOK demodulation
11:         Do oversampling receiving signals
12:         foreach samples
13:             Calculate correlation values C
14:     end for
15:     /* reduce noise*/
16:     for i←1 to Length (C) do
17:         Run low pass filter for C
18:     end for
19:     /* decision */
20:     Find local maximum correlation values Cmax
21:     Decide detected data Dd by Cmax
22:     /* performance evaluation*/
23:     Compare Ds with Dd
24:     Calculate SER for symbol A
25:     Calculate SER for symbol B
```