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```
function bit_seq = GenerateBits(N_bits)
%
% Inputs:
%   N_bits:    Number of bits in the sequence
% Outputs:
%   bit_seq:    The sequence of generated bits
%
% This function generates a sequence of bits with length equal to N_bits
```

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```
bit_seq=randi([0 1],1,N_bits);
```