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In [ ]: #Ideal Random Binary Copolymer
import random as rnd

N = 200; pB = 0.10; #pA = 1 - pB

nB = 0; P = "";

while(nB != pB*N):
    for i in range(N):
        r = rnd.random();
        if(r <= pB):
            P += 'B';
            nB += 1;
        else:
            P += 'A'

print(P);
```