240. For a group of auto policyholders, you are given:

(i) The number of claims for each policyholder has a conditional Poisson distribution.

(ii) During Year 1, the following data are observed for 8000 policyholders:

Number of Claims	Number of Policyholders
0	5000
1	2100
2	750
3	100
4	50
5+	0

A randomly selected policyholder had one claim in Year 1.

Determine the semiparametric empirical Bayes estimate of the number of claims in Year 2 for the same policyholder.

(A) Less than 0.15

(B) At least 0.15, but less than 0.30

(C) At least 0.30, but less than 0.45

(D) At least 0.45, but less than 0.60

(E) At least 0.60