Determine the expected search cost of an optimal binary search tree for a set n = 5 keys with the following probabilities. We assume that all searches are successful.

Key	1	2	3	4	5
proabaility	.25	.2	.05	.2	.3

(A)2.15 (B)1.15 (C)2.10 (D)1.10 (E)2.0

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(C) *