

N 11

$$1) 4'' - 8$$

$$1) 3'' - 4$$

$$1) 2'' - 6$$

$$1) 1'' - 6$$

$$L = \frac{L_1}{L_0} = \frac{P_1(x_1) P_2(x_2)}{P_0(x_1) P_0(x_2)} \geq C$$

$$P_1 = \frac{1}{4} \delta(x-1) + \frac{1}{4} \delta(x-2) + \frac{1}{4} \delta(x-3) + \frac{1}{4} \delta(x-4)$$

$$P_0 = \frac{1}{4} \delta(x-1) + \frac{1}{4} \delta(x-2) + \frac{1}{6} \delta(x-3) + \frac{1}{3} \delta(x-4)$$

$$L:$$

	1	2	3	4
1	1	1	$\frac{3}{2}$	$\frac{3}{4}$
2	1	1	$\frac{3}{2}$	$\frac{3}{4}$
3	$\frac{3}{2}$	$\frac{3}{2}$	$\frac{9}{4}$	$\frac{9}{8}$
4	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{9}{8}$	$\frac{9}{16}$

$$H_0:$$

	1	2	3	4
1	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{24}$	$\frac{1}{12}$
2	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{24}$	$\frac{1}{12}$
3	$\frac{1}{24}$	$\frac{1}{24}$	$\frac{1}{36}$	$\frac{1}{18}$
4	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{18}$	$\frac{1}{9}$

$$H_1:$$

	1	2	3	4
1	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$
2	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$
3	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$
4	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$

$$P(L \geq C | H_0)$$

$$\frac{1}{36} \leq 0,2$$

$$\frac{1}{36} + \frac{1}{24} \cdot 4 \leq 0,2$$

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0,194

Далее $> 0,2 \Rightarrow \text{б.к.р.}$: выпадение $(1,3), (2,3), (3,2), (3,1), (3,3)$

$$L_1 \approx 0,194$$

$$L_2 = 1 - W = 1 - P(L \geq C | H_1) = \frac{11}{16} \approx 0,6875$$

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 $W = 0,3125 = \frac{1}{16} \cdot 5$