

21- TR

$$H_0: S \sim p(x) = \frac{8}{24} \{4\} + \frac{4}{24} \{33\} + \frac{6}{24} \{1, 2\}$$

$$H_1: S \sim p(x) = \frac{6}{24} \{1, 2, 3, 4\}$$

$$n=2 \quad d=0, 2$$

$$L = \frac{L_1}{L_0} = \frac{p_1(x_1) \cdot p_1(x_2)}{p_0(x_1) \cdot p_0(x_2)}$$

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 <sub>0</sub>	1	2	3	4
1	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{12}$	$\frac{1}{12}$
2	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{12}$	$\frac{1}{12}$
3	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{36}$	$\frac{1}{18}$
4	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{36}$	$\frac{1}{9}$

H <sub>1</sub>	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	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$

$G: L \geq C$

$$P(L \geq C | \%) \leq 0,2$$

Буде  $L \geq \frac{9}{4}$ , то  $P \geq \frac{1}{36} < 0,2$

Если  $L \geq \frac{3}{2}$ , то  $P = 0,194 < 0,2$

Но самое большое значение

$$\Rightarrow C = \frac{3}{2}$$

$$L \geq \frac{3}{2}$$

$$d_1 = \frac{7}{36}$$

$$W = \frac{5}{16} \Rightarrow d_2 = \frac{11}{16}$$

$$\text{Orbeit: } W = \frac{5}{16}$$