



标签维护

$L[0] = \{0, 0, 0, \infty\}$
 $L[1] = \{0, 3, 0, \infty\}, \{1, 0, 0, \infty\}$
 $L[2] = \{0, 6, 2, \infty\}, \{1, 3, 2, \infty\}, \{2, 0, 0, \infty\}, \{0, 4, 1, 1\}, \{1, 1, 1, 1\}, \{0, 6, 0, 0\}, \{1, 4, 0, 0\}$
 $L[3] = \{0, 5, 0, \infty\}, \{1, 2, 0, \infty\}, \{2, 5, 2, \infty\}, \{3, 0, 0, \infty\}$
 $L[4] = \{0, 7, 2, \infty\}, \{1, 4, 2, \infty\}, \{2, 3, 0, \infty\}, \{3, 2, 2, \infty\}, \{4, 0, 0, \infty\},$
 $\{0, 6, 1, 1\}, \{1, 3, 1, 1\}, \{3, 1, 1, 1\}, \{0, 8, 0, 0\}, \{1, 5, 0, 0\}, \{3, 3, 0, 0\}$
 $L[5] = \{0, 7, 2, \infty\}, \{1, 4, 2, \infty\}, \{2, 1, 0, \infty\}, \{3, 4, 2, \infty\}, \{4, 2, 0, \infty\}, \{5, 0, 0, \infty\}$
 $\{0, 5, 1, 1\}, \{1, 2, 1, 1\}, \{3, 3, 1, 1\}, \{0, 7, 0, 0\}, \{1, 5, 0, 0\}, \{3, 5, 0, 0\}$
 $L[6] = \{0, 8, 2, \infty\}, \{1, 5, 2, \infty\}, \{2, 2, 0, \infty\}, \{3, 3, 2, \infty\}, \{4, 1, 0, \infty\}, \{5, 1, 0, \infty\}, \{6, 0, 0, \infty\},$
 $\{0, 6, 1, 1\}, \{1, 3, 1, 1\}, \{3, 2, 1, 1\}, \{0, 8, 0, 0\}, \{1, 6, 0, 0\}, \{3, 4, 0, 0\}$
 $L[7] = \{0, 6, 0, \infty\}, \{7, 0, 0, \infty\}$

1st 维护

AL_1
 $(v_2, v_0, 4), (v_2, v_1, 1), (v_4, v_0, 6)$
 $(v_4, v_1, 3), (v_4, v_3, 1)$

2st 维护

AL_1
 $(v_5, v_0, 5), (v_5, v_1, 2), (v_6, v_3, 2)$

AL_2
 $(v_2, v_0), (v_3, v_2), (v_2, v_1), (v_4, v_0),$
 $(v_4, v_1), (v_4, v_3)$

3st 维护

AL_1
 $(v_2, v_0, 6), (v_6, v_0, 6), (v_2, v_1, 3),$
 $(v_6, v_1, 3), (v_5, v_3, 3)$

AL_2
 $(v_5, v_0), (v_5, v_1), (v_6, v_3)$

4st 维护

AL_1
 $(v_5, v_0, 7), (v_4, v_0, 7), (v_5, v_1, 4),$
 $(v_5, v_1, 4)$

AL_2
 $(v_2, v_0), (v_2, v_1), (v_6, v_0), (v_6, v_1)$
 (v_5, v_3)

1st 更新

AL_2
 $(v_6, v_0, 8), (v_6, v_1, 5)$

AL_2
 $(v_5, v_0), (v_5, v_1), (v_4, v_0), (v_4, v_0)$

1st 更新

AL_2
 $(v_6, v_0), (v_6, v_1)$

1st 标签更新

$(v_2, v_0, 6), (v_2, v_1, 3), (v_3, v_2, 5)$
 $(v_4, v_0, 7), (v_4, v_1, 4), (v_4, v_3, 2)$

2st 标签更新

$(v_5, v_0, 7), (v_5, v_1, 4), (v_6, v_3, 3)$

3st 标签更新

$(v_2, v_0, 6), (v_6, v_0, 8), (v_2, v_1, 3),$
 $(v_6, v_1, 5), (v_5, v_3, 4)$

4st 标签更新

$(v_5, v_0, 7), (v_4, v_0, 7), (v_5, v_1, 4),$
 $(v_4, v_1, 4)$

5st 标签更新

$(v_6, v_0, 8), (v_6, v_1, 5)$

标签更新