250 mL Enumeration Protocol Addendum and MPN Table

Follow the procedures in this protocol addendum when using the Pseudalert* Test for the enumeration of *Pseudomonas aeruginosa* in 250 mL water samples. Refer to the printed package insert for test storage requirements and all other procedures.

Quanti-Tray enumeration procedure (250 mL samples only)

1. Divide the 250 mL sample into three sterile, transparent vessels with two samples having aliquots of 100 mL and one sample having an aliquot of 50 mL.
2. Add 50 mL of sterile, noninhibitory, oxidant-free water to the 50 mL sample aliquot to bring the volume to 100 mL.
3. Aseptically add the contents of a single 100 mL snap pack of Pseudalert* reagent to each of the three vessels.
4. Cap vessels and shake until contents are dissolved.
5. Add 2 drops of IDEXX Antifoam Solution to each sample/reagent mixture.
   Note: IDEXX 120 mL sample vessels containing antifoam are also available.
6. Pour each sample/reagent mixture into a separate Quanti-Tray* tray, and then seal with the Quanti-Tray* Sealer; label the three trays to differentiate between the undiluted and diluted mixtures.
7. Place the sealed trays in an incubator at 38°C ±0.5°C for 24 to 28 hours.
8. Read results according to the result interpretation table below, counting the number of positive wells.
9. Refer to the Pseudalert 250 Quanti-Tray MPN Table on the next page. The most probable number (MPN) is obtained using the sum of the positive counts from the two undiluted Quanti-Trays and the positive count from the diluted Quanti-Tray.

Result interpretation

Appearance	Result
No blue fluorescence	Negative for *Pseudomonas aeruginosa*
Blue fluorescence†	Positive for *Pseudomonas aeruginosa*

†Greater than the blue fluorescence present in a negative control sample

- Look for blue fluorescence with a 6-watt, 365 nm UV light held within 5 inches of the sample in a dark environment. Face the light away from your eyes and toward the sample.
- Refer to the –/+ fluorescence reading guide on the test box. The colors are as seen under a UV light.
- Pseudalert results are definitive at 24–28 hours.

Pseudalert 250 Quanti-Tray MPN Table

IDEXX

Number of positive wells—both undiluted trays

Number of positive wells—diluted tray

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
0	<1	1.0	2.0	3.0	4.1	5.1	6.1	7.2	8.3	9.3	10.4	11.5	12.6	13.7	14.8	16.0	17.1	18.2	19.4	20.6	21.8	22.9	24.1	25.4	26.6	27.8
1	1.0	2.0	3.0	4.1	5.1	6.1	7.2	8.2	9.3	10.4	11.5	12.6	13.7	14.8	15.9	17.1	18.2	19.4	20.5	21.7	22.9	24.1	25.3	26.5	27.8	29.0
2	2.0	3.0	4.0	5.1	6.1	7.2	8.2	9.3	10.4	11.5	12.5	13.7	14.8	15.9	17.0	18.2	19.3	20.5	21.7	22.8	24.0	25.2	26.5	27.7	28.9	30.2
3	3.0	4.0	5.1	6.1	7.2	8.2	9.3	10.3	11.4	12.5	13.6	14.7	15.9	17.0	18.1	19.3	20.4	21.6	22.8	24.0	25.2	26.4	27.6	28.9	30.1	31.4
4	4.0	5.1	6.1	7.1	8.2	9.3	10.3	11.4	12.5	13.6	14.7	15.8	16.9	18.1	19.2	20.4	21.6	22.7	23.9	25.1	26.3	27.6	28.8	30.1	31.3	32.6
5	5.0	6.1	7.1	8.2	9.2	10.3	11.4	12.5	13.6	14.7	15.8	16.9	18.0	19.2	20.3	21.5	22.7	23.9	25.1	26.3	27.5	28.7	30.0	31.2	32.5	33.8
6	6.1	7.1	8.2	9.2	10.3	11.4	12.4	13.5	14.6	15.8	16.9	18.0	19.2	20.3	21.5	22.6	23.8	25.0	26.2	27.4	28.7	29.9	31.2	32.4	33.7	35.0
7	7.1	8.1	9.2	10.3	11.3	12.4	13.5	14.6	15.7	16.8	18.0	19.1	20.3	21.4	22.6	23.8	25.0	26.2	27.4	28.6	29.9	31.1	32.4	33.6	34.9	36.2
8	8.1	9.2	10.2	11.3	12.4	13.5	14.6	15.7	16.8	17.9	19.1	20.2	21.4	22.5	23.7	24.9	26.1	27.3	28.5	29.8	31.0	32.3	33.6	34.8	36.1	37.5
9	9.2	10.2	11.3	12.4	13.5	14.5	15.7	16.8	17.9	19.0	20.2	21.3	22.5	23.7	24.9	26.1	27.3	28.5	29.7	31.0	32.2	33.5	34.8	36.1	37.4	38.7
10	10.2	11.3	12.3	13.4	14.5	15.6	16.7	17.9	19.0	20.1	21.3	22.4	23.6	24.8	26.0	27.2	28.4	29.6	30.9	32.1	33.4	34.7	36.0	37.3	38.6	39.9
11	11.2	12.3	13.4	14.5	15.6	16.7	17.8	18.9	20.1	21.2	22.4	23.6	24.7	25.9	27.1	28.4	29.6	30.8	32.1	33.3	34.6	35.9	37.2	38.5	39.8	41.2
12	12.3	13.4	14.5	15.6	16.7	17.8	18.9	20.0	21.2	22.3	23.5	24.7	25.9	27.1	28.3	29.5	30.7	32.0	33.2	34.5	35.8	37.1	38.4	39.7	41.1	42.4
13	13.3	14.4	15.5	16.6	17.7	18.9	20.0	21.1	22.3	23.5	24.6	25.8	27.0	28.2	29.4	30.7	31.9	33.2	34.4	35.7	37.0	38.3	39.6	41.0	42.3	43.7
14	14.4	15.5	16.6	17.7	18.8	20.0	21.1	22.2	23.4	24.6	25.8	27.0	28.2	29.4	30.6	31.8	33.1	34.4	35.6	36.9	38.2	39.5	40.9	42.2	43.6	44.9
15	15.5	16.6	17.7	18.8	19.9	21.1	22.2	23.4	24.5	25.7	26.9	28.1	29.3	30.5	31.8	33.0	34.3	35.5	36.8	38.1	39.4	40.8	42.1	43.5	44.8	46.2
16	16.5	17.6	18.7	19.9	21.0	22.2	23.3	24.5	25.6	26.8	28.0	29.2	30.5	31.7	32.9	34.2	35.5	36.7	38.0	39.3	40.7	42.0	43.4	44.7	46.1	47.5
17	17.6	18.7	19.8	21.0	22.1	23.3	24.4	25.6	26.8	28.0	29.2	30.4	31.6	32.9	34.1	35.4	36.7	38.0	39.3	40.6	41.9	43.2	44.6	46.0	47.4	48.8
18	18.7	19.8	20.9	22.1	23.2	24.4	25.5	26.7	27.9	29.1	30.3	31.6	32.8	34.0	35.3	36.6	37.9	39.2	40.5	41.8	43.1	44.5	45.9	47.2	48.6	50.1
19	19.7	20.9	22.0	23.2	24.3	25.5	26.7	27.8	29.0	30.3	31.5	32.7	34.0	35.2	36.5	37.8	39.1	40.4	41.7	43.0	44.4	45.7	47.1	48.5	49.9	51.3
20	20.8	22.0	23.1	24.3	25.4	26.6	27.8	29.0	30.2	31.4	32.6	33.9	35.1	36.4	37.7	39.0	40.3	41.6	42.9	44.3	45.6	47.0	48.4	49.8	51.2	52.7
21	21.9	23.1	24.2	25.4	26.5	27.7	28.9	30.1	31.3	32.6	33.8	35.1	36.3	37.6	38.9	40.2	41.5	42.8	44.2	45.5	46.9	48.3	49.7	51.1	52.5	54.0
22	23.0	24.2	25.3	26.5	27.7	28.9	30.1	31.3	32.5	33.7	35.0	36.2	37.5	38.8	40.1	41.4	42.7	44.1	45.4	46.8	48.2	49.6	51.0	52.4	53.8	55.3
23	24.1	25.3	26.4	27.6	28.8	30.0	31.2	32.4	33.7	34.9	36.2	37.4	38.7	40.0	41.3	42.6	44.0	45.3	46.7	48.0	49.4	50.8	52.3	53.7	55.1	56.6
24	25.2	26.4	27.5	28.7	29.9	31.1	32.3	33.6	34.8	36.1	37.3	38.6	39.9	41.2	42.5	43.8	45.2	46.5	47.9	49.3	50.7	52.1	53.6	55.0	56.5	57.9
25	26.3	27.5	28.7	29.9	31.1	32.3	33.5	34.7	36.0	37.2	38.5	39.8	41.1	42.4	43.7	45.1	46.4	47.8	49.2	50.6	52.0	53.4	54.9	56.3	57.8	59.3
26	27.4	28.6	29.8	31.0	32.2	33.4	34.7	35.9	37.2	38.4	39.7	41.0	42.3	43.6	45.0	46.3	47.7	49.1	50.5	51.9	53.3	54.7	56.2	57.6	59.1	60.6
27	28.5	29.7	30.9	32.1	33.3	34.6	35.8	37.1	38.3	39.6	40.9	42.2	43.5	44.9	46.2	47.6	48.9	50.3	51.7	53.1	54.6	56.0	57.5	59.0	60.5	62.0
28	29.7	30.9	32.1	33.3	34.5	35.7	37.0	38.3	39.5	40.8	42.1	43.4	44.8	46.1	47.5	48.8	50.2	51.6	53.0	54.4	55.9	57.3	58.8	60.3	61.8	63.3
29	30.8	32.0	33.2	34.4	35.7	36.9	38.2	39.4	40.7	42.0	43.3	44.7	46.0	47.3	48.7	50.1	51.5	52.9	54.3	55.7	57.2	58.7	60.2	61.7	63.2	64.7
30	31.9	33.1	34.3	35.6	36.8	38.1	39.3	40.6	41.9	43.2	44.5	45.9	47.2	48.6	50.0	51.3	52.7	54.2	55.6	57.0	58.5	60.0	61.5	63.0	64.5	66.1
31	33.1	34.3	35.5	36.7	38.0	39.3	40.5	41.8	43.1	44.4	45.8	47.1	48.5	49.8	51.2	52.6	54.0	55.5	56.9	58.4	59.8	61.3	62.8	64.4	65.9	67.5
32	34.2	35.4	36.7	37.9	39.2	40.4	41.7	43.0	44.3	45.7	47.0	48.3	49.7	51.1	52.5	53.9	55.3	56.8	58.2	59.7	61.2	62.7	64.2	65.7	67.3	68.9
33	35.3	36.6	37.8	39.1	40.3	41.6	42.9	44.2	45.5	46.9	48.2	49.6	51.0	52.4	53.8	55.2	56.6	58.1	59.5	61.0	62.5	64.0	65.6	67.1	68.7	70.3
34	36.5	37.7	39.0	40.3	41.5	42.8	44.1	45.4	46.8	48.1	49.5	50.8	52.2	53.6	55.0	56.5	57.9	59.4	60.9	62.3	63.9	65.4	66.9	68.5	70.1	71.7
35	37.6	38.9	40.2	41.4	42.7	44.0	45.3	46.7	48.0	49.3	50.7	52.1	53.5	54.9	56.3	57.8	59.2	60.7	62.2	63.7	65.2	66.8	68.3	69.9	71.5	73.1
36	38.8	40.1	41.3	42.6	43.9	45.2	46.5	47.9	49.2	50.6	52.0	53.4	54.8	56.2	57.6	59.1	60.5	62.0	63.5	65.0	66.6	68.1	69.7	71.3	72.9	74.5
37	40.0	41.2	42.5	43.8	45.1	46.4	47.8	49.1	50.5	51.8	53.2	54.6	56.0	57.5	58.9	60.4	61.9	63.4	64.9	66.4	67.9	69.5	71.1	72.7	74.3	76.0
38	41.1	42.4	43.7	45.0	46.3	47.7	49.0	50.3	51.7	53.1	54.5	55.9	57.3	58.8	60.2	61.7	63.2	64.7	66.2	67.8	69.3	70.9	72.5	74.1	75.8	77.4
39	42.3	43.6	44.9	46.2	47.5	48.9	50.2	51.6	53.0	54.4	55.8	57.2	58.6	60.1	61.5	63.0	64.5	66.1	67.6	69.1	70.7	72.3	73.9	75.5	77.2	78.9
40	43.5	44.8	46.1	47.4	48.8	50.1	51.5	52.8	54.2	55.6	57.0	58.5	59.9	61.4	62.9	64.4	65.9	67.4	69.0	70.5	72.1	73.7	75.3	77.0	78.6	80.3
41	44.7	46.0	47.3	48.6	50.0	51.3	52.7	54.1	55.5	56.9	58.3	59.8	61.2	62.7	64.2	65.7	67.2	68.8	70.3	71.9	73.5	75.1	76.8	78.4	80.1	81.8
42	45.9	47.2	48.5	49.9	51.2	52.6	54.0	55.4	56.8	58.2	59.6	61.1	62.5	64.0	65.5	67.1	68.6	70.1	71.7	73.3	74.9	76.6	78.2	79.9	81.6	83.3
43	47.1	48.4	49.7	51.1	52.5	53.8	55.2	56.6	58.0	59.5	60.9	62.4	63.9	65.4	66.9	68.4	70.0	71.5	73.1	74.7	76.3	78.0	79.6	81.3	83.0	84.8
44	48.3	49.6	51.0	52.3	53.7	55.1	56.5	57.9	59.3	60.8	62.2	63.7	65.2	66.7	68.2	69.8	71.3	72.9	74.5	76.1	77.8	79.4	81.1	82.8	84.5	86.3
45	49.5	50.8	52.2	53.6	54.9	56.3	57.7	59.2	60.6	62.1	63.5	65.0	66.5	68.0	69.6	71.1	72.7	74.3	75.9	77.5	79.2	80.9	82.6	84.3	86.0	87.8
46	50.7	52.1	53.4	54.8	56.2	57.6	59.0	60.5	61.9	63.4	64.9	66.4	67.9	69.4	71.0	72.5	74.1	75.7	77.3	79.0	80.6	82.3	84.0	85.8	87.5	89.3
47	51.9	53.3	54.7	56.1	57.5	58.9	60.3	61.8	63.2	64.7	66.2	67.7	69.2	70.8	72.3	73.9	75.5	77.1	78.8	80.4	82.1	83.8	85.5	87.3	89.0	90.8
48	53.2	54.5	55.9	57.3	58.7	60.2	61.6	63.1	64.5	66.0	67.5	69.0	70.6	72.1	73.7	75.3	76.9	78.5	80.2	81.9	83.6	85.3	87.0	88.8	90.5	92.4
49	54.4	55.8	57.2	58.6	60.0	61.4	62.9	64.4	65.8	67.3	68.9	70.4	71.9	73.5	75.1	76.7	78.3	80.0	81.6	83.3	85.0	86.8	88.5	90.3	92.1	93.9
50	55.7	57.0	58.4	59.9	61.3	62.7	64.2	65.7	67.2	68.7	70.2	71.7	73.3	74.9	76.5	78.1	79.7	81.4	83.1	84.8	86.5	88.2	90.0	91.8	93.6	95.5
51	56.9	58.3	59.7	61.1	62.6	64.0	65.5	67.0	68.5	70.0	71.6	73.1	74.7	76.3	77.9	79.5	81.2	82.9	84.5	86.3	88.0	89.8	91.5	93.3	95.2	97.0

Number of positive wells—both undiluted trays

Number of positive wells—diluted tray	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
0	29.1	30.3	31.6	32.9	34.2	35.5	36.8	38.2	39.5	40.9	42.3	43.7	45.1	46.6	48.0	49.5	50.9	52.4	54.0	55.5	57.1	58.6	60.2	61.8	63.5	65.1
1	30.3	31.5	32.8	34.1	35.4	36.8	38.1	39.4	40.8	42.2	43.6	45.0	46.4	47.9	49.3	50.8	52.3	53.8	55.4	56.9	58.5	60.1	61.7	63.3	64.9	66.6
2	31.5	32.7	34.0	35.3	36.7	38.0	39.3	40.7	42.1	43.5	44.9	46.3	47.8	49.2	50.7	52.2	53.7	55.2	56.7	58.3	59.9	61.5	63.1	64.8	66.4	68.1
3	32.7	34.0	35.3	36.6	37.9	39.3	40.6	42.0	43.4	44.8	46.2	47.6	49.1	50.5	52.0	53.5	55.1	56.6	58.1	59.7	61.3	62.9	64.6	66.2	67.9	69.6
4	33.9	35.2	36.5	37.8	39.2	40.5	41.9	43.3	44.7	46.1	47.5	49.0	50.4	51.9	53.4	54.9	56.4	58.0	59.6	61.1	62.8	64.4	66.0	67.7	69.4	71.1
5	35.1	36.4	37.7	39.1	40.4	41.8	43.2	44.5	46.0	47.4	48.8	50.3	51.8	53.2	54.8	56.3	57.8	59.4	61.0	62.6	64.2	65.9	67.5	69.2	70.9	72.6
6	36.3	37.6	39.0	40.3	41.7	43.0	44.4	45.8	47.3	48.7	50.2	51.6	53.1	54.6	56.1	57.7	59.2	60.8	62.4	64.0	65.7	67.3	69.0	70.7	72.4	74.2
7	37.5	38.9	40.2	41.6	42.9	44.3	45.7	47.1	48.6	50.0	51.5	53.0	54.5	56.0	57.5	59.1	60.6	62.2	63.8	65.5	67.1	68.8	70.5	72.2	74.0	75.7
8	38.8	40.1	41.5	42.8	44.2	45.6	47.0	48.5	49.9	51.4	52.8	54.3	55.8	57.4	58.9	60.5	62.1	63.7	65.3	66.9	68.6	70.3	72.0	73.7	75.5	77.3
9	40.0	41.4	42.7	44.1	45.5	46.9	48.3	49.8	51.2	52.7	54.2	55.7	57.2	58.7	60.3	61.9	63.5	65.1	66.7	68.4	70.1	71.8	73.5	75.3	77.0	78.8
10	41.3	42.6	44.0	45.4	46.8	48.2	49.6	51.1	52.6	54.0	55.5	57.1	58.6	60.1	61.7	63.3	64.9	66.6	68.2	69.9	71.6	73.3	75.0	76.8	78.6	80.4
11	42.5	43.9	45.3	46.7	48.1	49.5	51.0	52.4	53.9	55.4	56.9	58.4	60.0	61.5	63.1	64.7	66.4	68.0	69.7	71.4	73.1	74.8	76.6	78.4	80.2	82.0
12	43.8	45.2	46.6	48.0	49.4	50.8	52.3	53.8	55.2	56.7	58.3	59.8	61.4	63.0	64.6	66.2	67.8	69.5	71.2	72.9	74.6	76.4	78.1	79.9	81.8	83.6
13	45.0	46.4	47.8	49.3	50.7	52.1	53.6	55.1	56.6	58.1	59.7	61.2	62.8	64.4	66.0	67.6	69.3	71.0	72.7	74.4	76.1	77.9	79.7	81.5	83.4	85.2
14	46.3	47.7	49.1	50.6	52.0	53.5	55.0	56.4	58.0	59.5	61.0	62.6	64.2	65.8	67.4	69.1	70.8	72.5	74.2	75.9	77.7	79.4	81.3	83.1	85.0	86.8
15	47.6	49.0	50.4	51.9	53.3	54.8	56.3	57.8	59.3	60.9	62.4	64.0	65.6	67.3	68.9	70.6	72.2	73.9	75.7	77.4	79.2	81.0	82.8	84.7	86.6	88.5
16	48.9	50.3	51.7	53.2	54.7	56.2	57.7	59.2	60.7	62.3	63.8	65.4	67.1	68.7	70.4	72.0	73.7	75.5	77.2	79.0	80.8	82.6	84.4	86.3	88.2	90.1
17	50.2	51.6	53.1	54.5	56.0	57.5	59.0	60.6	62.1	63.7	65.3	66.9	68.5	70.2	71.8	73.5	75.2	77.0	78.7	80.5	82.3	84.2	86.0	87.9	89.8	91.8
18	51.5	52.9	54.4	55.9	57.4	58.9	60.4	61.9	63.5	65.1	66.7	68.3	70.0	71.6	73.3	75.0	76.7	78.5	80.3	82.1	83.9	85.8	87.6	89.6	91.5	93.5
19	52.8	54.2	55.7	57.2	58.7	60.2	61.8	63.3	64.9	66.5	68.1	69.8	71.4	73.1	74.8	76.5	78.3	80.0	81.8	83.7	85.5	87.4	89.3	91.2	93.2	95.1
20	54.1	55.6	57.1	58.6	60.1	61.6	63.2	64.7	66.3	67.9	69.6	71.2	72.9	74.6	76.3	78.0	79.8	81.6	83.4	85.2	87.1	89.0	90.9	92.9	94.8	96.8
21	55.4	56.9	58.4	59.9	61.4	63.0	64.6	66.1	67.7	69.4	71.0	72.7	74.4	76.1	77.8	79.6	81.3	83.1	85.0	86.8	88.7	90.6	92.6	94.5	96.5	98.5
22	56.8	58.2	59.7	61.3	62.8	64.4	66.0	67.6	69.2	70.8	72.5	74.1	75.9	77.6	79.3	81.1	82.9	84.7	86.6	88.4	90.3	92.3	94.2	96.2	98.2	100.3
23	58.1	59.6	61.1	62.6	64.2	65.8	67.4	69.0	70.6	72.3	73.9	75.6	77.3	79.1	80.9	82.6	84.5	86.3	88.2	90.0	92.0	93.9	95.9	97.9	99.9	102.0
24	59.4	60.9	62.5	64.0	65.6	67.2	68.8	70.4	72.1	73.7	75.4	77.1	78.9	80.6	82.4	84.2	86.0	87.9	89.8	91.7	93.6	95.6	97.6	99.6	101.7	103.7
25	60.8	62.3	63.9	65.4	67.0	68.6	70.2	71.9	73.5	75.2	76.9	78.6	80.4	82.1	83.9	85.8	87.6	89.5	91.4	93.3	95.3	97.3	99.3	101.3	103.4	105.5
26	62.1	63.7	65.2	66.8	68.4	70.0	71.7	73.3	75.0	76.7	78.4	80.1	81.9	83.7	85.5	87.3	89.2	91.1	93.0	95.0	96.9	98.9	101.0	103.0	105.1	107.3
27	63.5	65.1	66.6	68.2	69.8	71.5	73.1	74.8	76.5	78.2	79.9	81.7	83.4	85.2	87.1	88.9	90.8	92.7	94.7	96.6	98.6	100.6	102.7	104.8	106.9	109.1
28	64.9	66.5	68.0	69.6	71.3	72.9	74.6	76.2	77.9	79.7	81.4	83.2	85.0	86.8	88.7	90.5	92.4	94.4	96.3	98.3	100.3	102.4	104.4	106.5	108.7	110.9
29	66.3	67.8	69.4	71.1	72.7	74.3	76.0	77.7	79.4	81.2	82.9	84.7	86.5	88.4	90.2	92.1	94.1	96.0	98.0	100.0	102.0	104.1	106.2	108.3	110.5	112.7
30	67.7	69.3	70.9	72.5	74.1	75.8	77.5	79.2	80.9	82.7	84.5	86.3	88.1	90.0	91.8	93.8	95.7	97.7	99.7	101.7	103.7	105.8	108.0	110.1	112.3	114.5
31	69.1	70.7	72.3	73.9	75.6	77.3	79.0	80.7	82.5	84.2	86.0	87.8	89.7	91.6	93.5	95.4	97.3	99.3	101.3	103.4	105.5	107.6	109.7	111.9	114.1	116.4
32	70.5	72.1	73.7	75.4	77.0	78.7	80.5	82.2	84.0	85.8	87.6	89.4	91.3	93.2	95.1	97.0	99.0	101.0	103.1	105.1	107.2	109.4	111.5	113.7	116.0	118.2
33	71.9	73.5	75.2	76.8	78.5	80.2	82.0	83.7	85.5	87.3	89.1	91.0	92.9	94.8	96.7	98.7	100.7	102.7	104.8	106.9	109.0	111.1	113.3	115.6	117.8	120.1
34	73.3	75.0	76.6	78.3	80.0	81.7	83.5	85.3	87.1	88.9	90.7	92.6	94.5	96.4	98.4	100.4	102.4	104.4	106.5	108.6	110.8	112.9	115.1	117.4	119.7	122.0
35	74.7	76.4	78.1	79.8	81.5	83.2	85.0	86.8	88.6	90.4	92.3	94.2	96.1	98.1	100.0	102.0	104.1	106.1	108.2	110.4	112.5	114.7	117.0	119.3	121.6	123.9
36	76.2	77.9	79.5	81.3	83.0	84.7	86.5	88.3	90.2	92.0	93.9	95.8	97.7	99.7	101.7	103.7	105.8	107.9	110.0	112.2	114.3	116.6	118.8	121.1	123.5	125.9
37	77.6	79.3	81.0	82.7	84.5	86.3	88.1	89.9	91.7	93.6	95.5	97.4	99.4	101.4	103.4	105.4	107.5	109.6	111.8	113.9	116.2	118.4	120.7	123.0	125.4	127.8
38	79.1	80.8	82.5	84.3	86.0	87.8	89.6	91.5	93.3	95.2	97.1	99.1	101.1	103.1	105.1	107.2	109.3	111.4	113.5	115.8	118.0	120.3	122.6	124.9	127.3	129.8
39	80.6	82.3	84.0	85.8	87.5	89.4	91.2	93.0	94.9	96.8	98.8	100.7	102.7	104.7	106.8	108.9	111.0	113.2	115.3	117.6	119.8	122.1	124.5	126.9	129.3	131.7
40	82.0	83.8	85.5	87.3	89.1	90.9	92.8	94.6	96.5	98.5	100.4	102.4	104.4	106.4	108.5	110.6	112.8	114.9	117.2	119.4	121.7	124.0	126.4	128.8	131.2	133.7
41	83.5	85.3	87.0	88.8	90.6	92.5	94.3	96.2	98.1	100.1	102.1	104.1	106.1	108.2	110.3	112.4	114.6	116.8	119.0	121.3	123.6	125.9	128.3	130.8	133.2	135.8
42	85.0	86.8	88.6	90.4	92.2	94.0	95.9	97.8	99.8	101.7	103.7	105.8	107.8	109.9	112.0	114.2	116.3	118.6	120.8	123.1	125.5	127.8	130.3	132.7	135.2	137.8
43	86.5	88.3	90.1	91.9	93.8	95.6	97.5	99.5	101.4	103.4	105.4	107.4	109.5	111.6	113.8	115.9	118.2	120.4	122.7	125.0	127.4	129.8	132.2	134.7	137.3	139.8
44	88.0	89.8	91.6	93.5	95.3	97.2	99.1	101.1	103.1	105.1	107.1	109.2	111.3	113.4	115.5	117.7	120.0	122.2	124.6	126.9	129.3	131.7	134.2	136.7	139.3	141.9
45	89.6	91.4	93.2	95.0	96.9	98.8	100.8	102.7	104.7	106.7	108.8	110.9	113.0	115.1	117.3	119.6	121.8	124.1	126.4	128.8	131.2	133.7	136.2	138.8	141.4	144.0
46	91.1	92.9	94.8	96.6	98.5	100.5	102.4	104.4	106.4	108.4	110.5	112.6	114.8	116.9	119.1	121.4	123.7	126.0	128.3	130.7	133.2	135.7	138.2	140.8	143.4	146.1
47	92.6	94.5	96.3	98.2	100.1	102.1	104.1	106.1	108.1	110.1	112.2	114.4	116.5	118.7	121.0	123.2	125.5	127.9	130.3	132.7	135.2	137.7	140.2	142.9	145.5	148.2
48	94.2	96.0	97.9	99.8	101.8	103.7	105.7	107.7	109.8	111.9	114.0	116.1	118.3	120.5	122.8	125.1	127.4	129.8	132.2	134.7	137.2	139.7	142.3	144.9	147.6	150.4
49	95.7	97.6	99.5	101.4	103.4	105.4	107.4	109.4	111.5	113.6	115.7	117.9	120.1	122.4	124.6	126.9	129.3	131.7	134.1	136.6	139.2	141.7	144.4	147.1	149.8	152.6
50	97.3	99.2	101.1	103.1	105.0	107.0	109.1	111.1	113.2	115.3	117.5	119.7	121.9	124.2	126.5	128.8	131.2	133.6	136.1	138.6	141.2	143.8	146.5	149.2	151.9	154.8
51	98.9	100.8	102.7	104.7	106.7	108.7	110.8	112.8	115.0	117.1	119.3	121.5	123.8	126.0	128.4	130.7	133.1	135.6	138.1	140.6	143.2	145.9	148.6	151.3	154.1	157.0

Number of positive wells—both undiluted trays

Number of positive wells—diluted tray	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
0	66.8	68.5	70.2	72.0	73.7	75.5	77.4	79.2	81.1	83.0	84.9	86.9	88.9	90.9	93.0	95.0	97.2	99.3	101.5	103.8	106.0	108.4	110.7	113.1	115.6	118.1
1	68.3	70.0	71.8	73.5	75.3	77.1	79.0	80.8	82.7	84.6	86.6	88.6	90.6	92.6	94.7	96.8	99.0	101.2	103.4	105.7	108.0	110.3	112.7	115.1	117.6	120.2
2	69.8	71.5	73.3	75.1	76.9	78.7	80.6	82.5	84.4	86.3	88.3	90.3	92.3	94.4	96.5	98.6	100.8	103.0	105.3	107.6	109.9	112.3	114.7	117.2	119.7	122.2
3	71.3	73.1	74.9	76.7	78.5	80.3	82.2	84.1	86.0	88.0	90.0	92.0	94.1	96.2	98.3	100.5	102.7	104.9	107.2	109.5	111.8	114.2	116.7	119.2	121.7	124.3
4	72.9	74.6	76.4	78.2	80.1	81.9	83.8	85.8	87.7	89.7	91.7	93.8	95.8	98.0	100.1	102.3	104.5	106.8	109.1	111.4	113.8	116.2	118.7	121.3	123.8	126.5
5	74.4	76.2	78.0	79.8	81.7	83.6	85.5	87.4	89.4	91.4	93.4	95.5	97.6	99.8	101.9	104.1	106.4	108.7	111.0	113.4	115.8	118.3	120.8	123.3	126.0	128.6
6	76.0	77.8	79.6	81.4	83.3	85.2	87.1	89.1	91.1	93.1	95.2	97.3	99.4	101.6	103.8	106.0	108.3	110.6	113.0	115.4	117.8	120.3	122.8	125.4	128.1	130.8
7	77.5	79.3	81.2	83.0	84.9	86.9	88.8	90.8	92.8	94.9	96.9	99.1	101.2	103.4	105.6	107.9	110.2	112.5	114.9	117.4	119.8	122.4	124.9	127.6	130.3	133.0
8	79.1	80.9	82.8	84.7	86.6	88.5	90.5	92.5	94.5	96.6	98.7	100.9	103.0	105.2	107.5	109.8	112.1	114.5	116.9	119.4	121.9	124.4	127.1	129.7	132.4	135.2
9	80.7	82.5	84.4	86.3	88.2	90.2	92.2	94.2	96.3	98.4	100.5	102.7	104.9	107.1	109.4	111.7	114.1	116.5	118.9	121.4	123.9	126.5	129.2	131.9	134.7	137.5
10	82.3	84.1	86.0	88.0	89.9	91.9	93.9	96.0	98.0	100.2	102.3	104.5	106.7	109.0	111.3	113.6	116.0	118.4	120.9	123.4	126.0	128.7	131.3	134.1	136.9	139.7
11	83.9	85.8	87.7	89.6	91.6	93.6	95.6	97.7	99.8	101.9	104.1	106.3	108.6	110.9	113.2	115.6	118.0	120.5	123.0	125.5	128.1	130.8	133.5	136.3	139.1	142.0
12	85.5	87.4	89.3	91.3	93.3	95.3	97.4	99.5	101.6	103.8	106.0	108.2	110.5	112.8	115.1	117.5	120.0	122.5	125.0	127.6	130.3	133.0	135.7	138.5	141.4	144.4
13	87.1	89.0	91.0	93.0	95.0	97.0	99.1	101.2	103.4	105.6	107.8	110.1	112.4	114.7	117.1	119.5	122.0	124.5	127.1	129.7	132.4	135.1	137.9	140.8	143.7	146.7
14	88.8	90.7	92.7	94.7	96.7	98.8	100.9	103.0	105.2	107.4	109.7	112.0	114.3	116.7	119.1	121.5	124.0	126.6	129.2	131.9	134.6	137.4	140.2	143.1	146.1	149.1
15	90.4	92.4	94.4	96.4	98.5	100.6	102.7	104.8	107.0	109.3	111.5	113.9	116.2	118.6	121.1	123.6	126.1	128.7	131.3	134.0	136.8	139.6	142.5	145.4	148.4	151.5
16	92.1	94.1	96.1	98.1	100.2	102.3	104.5	106.7	108.9	111.1	113.4	115.8	118.2	120.6	123.1	125.6	128.2	130.8	133.5	136.2	139.0	141.8	144.8	147.7	150.8	153.9
17	93.8	95.8	97.8	99.9	102.0	104.1	106.3	108.5	110.7	113.0	115.4	117.7	120.1	122.6	125.1	127.7	130.3	132.9	135.6	138.4	141.2	144.1	147.1	150.1	153.2	156.4
18	95.4	97.5	99.5	101.6	103.8	105.9	108.1	110.3	112.6	114.9	117.3	119.7	122.1	124.6	127.1	129.7	132.4	135.1	137.8	140.6	143.5	146.4	149.4	152.5	155.7	158.9
19	97.2	99.2	101.3	103.4	105.5	107.7	109.9	112.2	114.5	116.8	119.2	121.7	124.1	126.6	129.2	131.8	134.5	137.2	140.0	142.9	145.8	148.8	151.8	154.9	158.1	161.4
20	98.9	100.9	103.0	105.2	107.3	109.6	111.8	114.1	116.4	118.8	121.2	123.7	126.2	128.7	131.3	134.0	136.7	139.4	142.3	145.2	148.1	151.1	154.2	157.4	160.6	163.9
21	100.6	102.7	104.8	107.0	109.2	111.4	113.7	116.0	118.3	120.7	123.2	125.7	128.2	130.8	133.4	136.1	138.9	141.7	144.5	147.5	150.4	153.5	156.6	159.9	163.2	166.5
22	102.3	104.5	106.6	108.8	111.0	113.3	115.6	117.9	120.3	122.7	125.2	127.7	130.3	132.9	135.5	138.3	141.1	143.9	146.8	149.8	152.8	155.9	159.1	162.4	165.7	169.1
23	104.1	106.2	108.4	110.6	112.9	115.1	117.5	119.8	122.2	124.7	127.2	129.7	132.3	135.0	137.7	140.5	143.3	146.2	149.1	152.1	155.2	158.4	161.6	164.9	168.3	171.8
24	105.9	108.0	110.2	112.5	114.7	117.0	119.4	121.8	124.2	126.7	129.2	131.8	134.4	137.1	139.9	142.7	145.5	148.5	151.4	154.5	157.6	160.8	164.1	167.5	170.9	174.5
25	107.7	109.8	112.1	114.3	116.6	118.9	121.3	123.7	126.2	128.7	131.3	133.9	136.6	139.3	142.1	144.9	147.8	150.8	153.8	156.9	160.1	163.3	166.7	170.1	173.6	177.2
26	109.5	111.7	113.9	116.2	118.5	120.9	123.3	125.7	128.2	130.8	133.4	136.0	138.7	141.5	144.3	147.2	150.1	153.1	156.2	159.3	162.6	165.9	169.3	172.7	176.3	180.0
27	111.3	113.5	115.8	118.1	120.4	122.8	125.3	127.7	130.3	132.8	135.5	138.1	140.9	143.7	146.5	149.4	152.4	155.5	158.6	161.8	165.1	168.4	171.9	175.4	179.0	182.8
28	113.1	115.4	117.6	120.0	122.4	124.8	127.2	129.8	132.3	134.9	137.6	140.3	143.1	145.9	148.8	151.8	154.8	157.9	161.0	164.3	167.6	171.0	174.5	178.1	181.8	185.6
29	114.9	117.2	119.5	121.9	124.3	126.8	129.2	131.8	134.4	137.0	139.7	142.5	145.3	148.2	151.1	154.1	157.2	160.3	163.5	166.8	170.2	173.6	177.2	180.9	184.6	188.5
30	116.8	119.1	121.5	123.8	126.3	128.8	131.3	133.9	136.5	139.2	141.9	144.7	147.5	150.4	153.4	156.4	159.6	162.7	166.0	169.4	172.8	176.3	179.9	183.6	187.5	191.4
31	118.7	121.0	123.4	125.8	128.3	130.8	133.3	135.9	138.6	141.3	144.1	146.9	149.8	152.7	155.7	158.8	162.0	165.2	168.5	171.9	175.4	179.0	182.7	186.5	190.3	194.3
32	120.6	122.9	125.3	127.8	130.3	132.8	135.4	138.0	140.7	143.5	146.3	149.1	152.1	155.1	158.1	161.2	164.4	167.7	171.1	174.5	178.1	181.7	185.5	189.3	193.3	197.3
33	122.5	124.9	127.3	129.8	132.3	134.9	137.5	140.1	142.9	145.7	148.5	151.4	154.4	157.4	160.5	163.7	166.9	170.3	173.7	177.2	180.8	184.5	188.3	192.2	196.2	200.4
34	124.4	126.8	129.3	131.8	134.3	136.9	139.6	142.3	145.0	147.9	150.7	153.7	156.7	159.8	162.9	166.1	169.5	172.8	176.3	179.9	183.5	187.3	191.2	195.2	199.3	203.5
35	126.3	128.8	131.3	133.8	136.4	139.0	141.7	144.4	147.2	150.1	153.0	156.0	159.1	162.2	165.4	168.6	172.0	175.4	179.0	182.6	186.3	190.1	194.1	198.1	202.3	206.6
36	128.3	130.8	133.3	135.8	138.5	141.1	143.8	146.6	149.5	152.4	155.3	158.3	161.4	164.6	167.8	171.2	174.6	178.1	181.7	185.3	189.1	193.0	197.0	201.2	205.4	209.8
37	130.3	132.8	135.3	137.9	140.6	143.3	146.0	148.8	151.7	154.6	157.6	160.7	163.8	167.1	170.4	173.7	177.2	180.7	184.4	188.1	192.0	195.9	200.0	204.2	208.6	213.1
38	132.3	134.8	137.4	140.0	142.7	145.4	148.2	151.1	154.0	156.9	160.0	163.1	166.3	169.5	172.9	176.3	179.8	183.4	187.1	191.0	194.9	198.9	203.1	207.4	211.8	216.3
39	134.3	136.8	139.4	142.1	144.8	147.6	150.4	153.3	156.3	159.3	162.4	165.5	168.8	172.1	175.5	178.9	182.5	186.2	189.9	193.8	197.8	201.9	206.1	210.5	215.0	219.7
40	136.3	138.9	141.5	144.2	147.0	149.8	152.6	155.6	158.6	161.6	164.8	168.0	171.2	174.6	178.1	181.6	185.2	188.9	192.8	196.7	200.8	205.0	209.3	213.7	218.3	223.1
41	138.3	141.0	143.6	146.4	149.2	152.0	154.9	157.9	160.9	164.0	167.2	170.4	173.8	177.2	180.7	184.3	188.0	191.8	195.7	199.7	203.8	208.1	212.5	217.0	221.7	226.6
42	140.4	143.1	145.8	148.5	151.4	154.2	157.2	160.2	163.3	166.4	169.6	172.9	176.3	179.8	183.3	187.0	190.8	194.6	198.6	202.7	206.9	211.2	215.7	220.3	225.1	230.1
43	142.5	145.2	147.9	150.7	153.6	156.5	159.5	162.5	165.7	168.9	172.1	175.5	178.9	182.4	186.0	189.8	193.6	197.5	201.5	205.7	210.0	214.4	219.0	223.7	228.6	233.7
44	144.6	147.3	150.1	152.9	155.8	158.8	161.8	164.9	168.1	171.3	174.6	178.0	181.5	185.1	188.8	192.5	196.4	200.4	204.5	208.8	213.1	217.6	222.3	227.1	232.1	237.3
45	146.7	149.5	152.3	155.2	158.1	161.1	164.2	167.3	170.5	173.8	177.2	180.6	184.2	187.8	191.5	195.4	199.3	203.4	207.6	211.9	216.3	220.9	225.7	230.6	235.7	241.0
46	148.9	151.7	154.5	157.4	160.4	163.4	166.5	169.7	173.0	176.3	179.7	183.3	186.9	190.6	194.3	198.2	202.3	206.4	210.7	215.1	219.6	224.3	229.1	234.2	239.4	244.8
47	151.0	153.9	156.7	159.7	162.7	165.8	169.0	172.2	175.5	178.9	182.4	185.9	189.6	193.3	197.2	201.2	205.2	209.5	213.8	218.3	222.9	227.7	232.6	237.8	243.1	248.6
48	153.2	156.1	159.0	162.0	165.1	168.2	171.4	174.7	178.0	181.5	185.0	188.6	192.3	196.1	200.1	204.1	208.3	212.6	217.0	221.5	226.3	231.1	236.2	241.5	246.9	252.6
49	155.4	158.3	161.3	164.3	167.4	170.6	173.8	177.2	180.6	184.1	187.7	191.3	195.1	199.0	203.0	207.1	211.3	215.7	220.2	224.9	229.7	234.7	239.8	245.2	250.8	256.6
50	157.6	160.6	163.6	166.7	169.8	173.0	176.3	179.7	183.2	186.7	190.4	194.1	197.9	201.9	205.9	210.1	214.4	218.9	223.5	228.2	233.2	238.2	243.5	249.0	254.7	260.7
51	159.9	162.9	165.9	169.1	172.2	175.5	178.9	182.3	185.8	189.4	193.1	196.9	200.8	204.8	208.9	213.2	217.6	222.1	226.8	231.7	236.7	241.9	247.3	252.9	258.7	264.8

Number of positive wells—both undiluted trays

Number of positive wells—diluted tray

	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102
0	120.6	123.2	125.9	128.6	131.4	134.2	137.1	140.1	143.1	146.2	149.4	152.7	156.0	159.5	163.0	166.7	170.4	174.3	178.3	182.4	186.6	191.0	195.6	200.3	205.2
1	122.7	125.4	128.1	130.8	133.6	136.5	139.4	142.5	145.5	148.7	151.9	155.3	158.7	162.2	165.8	169.5	173.3	177.3	181.3	185.5	189.9	194.3	199.0	203.8	208.9
2	124.9	127.5	130.3	133.1	135.9	138.8	141.8	144.9	148.0	151.2	154.5	157.9	161.3	164.9	168.6	172.4	176.3	180.3	184.4	188.7	193.1	197.7	202.5	207.4	212.6
3	127.0	129.7	132.5	135.3	138.2	141.2	144.2	147.3	150.5	153.7	157.1	160.5	164.1	167.7	171.4	175.3	179.2	183.3	187.6	191.9	196.5	201.2	206.0	211.1	216.4
4	129.2	131.9	134.7	137.6	140.5	143.5	146.6	149.8	153.0	156.3	159.7	163.2	166.8	170.5	174.3	178.2	182.3	186.5	190.8	195.3	199.9	204.7	209.7	214.9	220.3
5	131.4	134.1	137.0	139.9	142.9	145.9	149.1	152.3	155.6	158.9	162.4	165.9	169.6	173.4	177.2	181.2	185.4	189.6	194.0	198.6	203.3	208.3	213.4	218.7	224.2
6	133.6	136.4	139.3	142.2	145.3	148.4	151.5	154.8	158.1	161.6	165.1	168.7	172.4	176.3	180.2	184.3	188.5	192.9	197.4	202.0	206.9	211.9	217.1	222.6	228.3
7	135.8	138.7	141.6	144.6	147.7	150.8	154.1	157.4	160.8	164.2	167.8	171.5	175.3	179.2	183.2	187.4	191.7	196.1	200.7	205.5	210.5	215.6	221.0	226.6	232.5
8	138.1	141.0	144.0	147.0	150.1	153.3	156.6	160.0	163.4	167.0	170.6	174.4	178.2	182.2	186.3	190.6	194.9	199.5	204.2	209.1	214.1	219.4	224.9	230.7	236.7
9	140.4	143.3	146.3	149.4	152.6	155.8	159.2	162.6	166.1	169.7	173.4	177.2	181.2	185.2	189.4	193.8	198.2	202.9	207.7	212.7	217.9	223.3	229.0	234.9	241.0
10	142.7	145.7	148.7	151.9	155.1	158.4	161.8	165.2	168.8	172.5	176.3	180.2	184.2	188.3	192.6	197.0	201.6	206.3	211.3	216.4	221.7	227.3	233.1	239.1	245.5
11	145.0	148.1	151.2	154.4	157.6	161.0	164.4	167.9	171.6	175.3	179.2	183.1	187.2	191.5	195.8	200.3	205.0	209.9	214.9	220.1	225.6	231.3	237.3	243.5	250.1
12	147.4	150.5	153.6	156.9	160.2	163.6	167.1	170.7	174.4	178.2	182.1	186.2	190.3	194.6	199.1	203.7	208.5	213.5	218.6	224.0	229.6	235.4	241.6	248.0	254.7
13	149.8	152.9	156.1	159.4	162.8	166.2	169.8	173.5	177.2	181.1	185.1	189.2	193.5	197.9	202.4	207.1	212.0	217.1	222.4	227.9	233.7	239.7	246.0	252.6	259.5
14	152.2	155.4	158.6	162.0	165.4	168.9	172.6	176.3	180.1	184.1	188.1	192.3	196.7	201.2	205.8	210.6	215.6	220.8	226.3	231.9	237.8	244.0	250.5	257.3	264.5
15	154.6	157.9	161.2	164.6	168.1	171.7	175.3	179.1	183.0	187.1	191.2	195.5	199.9	204.5	209.3	214.2	219.3	224.7	230.2	236.0	242.1	248.4	255.1	262.1	269.6
16	157.1	160.4	163.8	167.2	170.8	174.4	178.2	182.0	186.0	190.1	194.3	198.7	203.2	207.9	212.8	217.8	223.1	228.5	234.2	240.2	246.4	253.0	259.8	267.1	274.8
17	159.6	163.0	166.4	169.9	173.5	177.2	181.0	185.0	189.0	193.2	197.5	202.0	206.6	211.4	216.4	221.5	226.9	232.5	238.4	244.5	250.9	257.6	264.7	272.2	280.1
18	162.2	165.6	169.0	172.6	176.3	180.1	184.0	188.0	192.1	196.4	200.8	205.3	210.0	214.9	220.0	225.3	230.8	236.6	242.6	248.8	255.4	262.4	269.7	277.5	285.7
19	164.8	168.2	171.7	175.4	179.1	182.9	186.9	191.0	195.2	199.5	204.0	208.7	213.5	218.5	223.7	229.2	234.8	240.7	246.9	253.3	260.1	267.3	274.9	282.9	291.4
20	167.4	170.9	174.5	178.2	182.0	185.9	189.9	194.1	198.4	202.8	207.4	212.1	217.1	222.2	227.5	233.1	238.9	244.9	251.3	257.9	264.9	272.3	280.1	288.4	297.3
21	170.0	173.6	177.2	181.0	184.8	188.8	192.9	197.2	201.6	206.1	210.8	215.7	220.7	225.9	231.4	237.1	243.0	249.3	255.8	262.6	269.9	277.5	285.6	294.2	303.4
22	172.7	176.3	180.0	183.8	187.8	191.8	196.0	200.4	204.8	209.5	214.3	219.2	224.4	229.8	235.4	241.2	247.3	253.7	260.4	267.5	274.9	282.8	291.2	300.1	309.7
23	175.4	179.1	182.9	186.8	190.8	194.9	199.2	203.6	208.2	212.9	217.8	222.9	228.2	233.7	239.4	245.4	251.7	258.2	265.2	272.4	280.1	288.3	297.0	306.3	316.3
24	178.1	181.9	185.7	189.7	193.8	198.0	202.4	206.9	211.5	216.4	221.4	226.6	232.0	237.6	243.5	249.7	256.1	262.9	270.0	277.5	285.5	294.0	303.0	312.7	323.0
25	180.9	184.7	188.7	192.7	196.9	201.2	205.6	210.2	215.0	219.9	225.0	230.4	235.9	241.7	247.7	254.0	260.7	267.7	275.0	282.8	291.0	299.8	309.2	319.2	330.1
26	183.7	187.6	191.6	195.7	200.0	204.4	208.9	213.6	218.5	223.5	228.8	234.2	239.9	245.8	252.0	258.5	265.4	272.6	280.1	288.2	296.7	305.8	315.6	326.1	337.4
27	186.6	190.6	194.6	198.8	203.2	207.6	212.3	217.1	222.0	227.2	232.6	238.1	244.0	250.1	256.4	263.1	270.2	277.6	285.4	293.7	302.6	312.1	322.2	333.2	345.1
28	189.5	193.5	197.7	202.0	206.4	210.9	215.7	220.6	225.7	230.9	236.4	242.2	248.1	254.4	261.0	267.8	275.1	282.7	290.9	299.5	308.7	318.5	329.1	340.6	353.1
29	192.4	196.5	200.8	205.1	209.6	214.3	219.1	224.1	229.3	234.8	240.4	246.3	252.4	258.8	265.6	272.7	280.1	288.1	296.5	305.4	314.9	325.2	336.3	348.3	361.5
30	195.4	199.6	203.9	208.4	213.0	217.7	222.7	227.8	233.1	238.6	244.4	250.4	256.8	263.4	270.3	277.6	285.3	293.5	302.2	311.5	321.4	332.1	343.7	356.4	370.2
31	198.5	202.7	207.1	211.7	216.4	221.2	226.3	231.5	236.9	242.6	248.5	254.7	261.2	268.0	275.2	282.7	290.7	299.2	308.2	317.8	328.2	339.4	351.5	364.8	379.5
32	201.5	205.9	210.4	215.0	219.8	224.8	229.9	235.3	240.9	246.7	252.8	259.1	265.8	272.8	280.1	287.9	296.2	305.0	314.3	324.4	335.2	346.9	359.6	373.7	389.2
33	204.7	209.1	213.7	218.4	223.3	228.4	233.7	239.1	244.9	250.8	257.1	263.6	270.4	277.7	285.3	293.3	301.9	311.0	320.7	331.1	342.4	354.7	368.1	383.0	399.5
34	207.9	212.4	217.0	221.9	226.9	232.1	237.5	243.1	248.9	255.1	261.5	268.2	275.2	282.7	290.5	298.8	307.7	317.1	327.3	338.2	350.0	362.9	377.1	392.8	410.4
35	211.1	215.7	220.4	225.4	230.5	235.8	241.3	247.1	253.1	259.4	266.0	272.9	280.1	287.8	295.9	304.5	313.7	323.5	334.1	345.5	357.9	371.5	386.4	403.1	422.0
36	214.4	219.1	223.9	229.0	234.2	239.6	245.3	251.2	257.4	263.8	270.6	277.7	285.2	293.1	301.5	310.4	320.0	330.2	341.2	353.1	366.1	380.4	396.3	414.1	434.4
37	217.7	222.5	227.4	232.6	238.0	243.5	249.3	255.4	261.7	268.3	275.3	282.6	290.4	298.5	307.2	316.5	326.4	337.0	348.6	361.1	374.8	389.9	406.8	425.9	447.8
38	221.1	226.0	231.0	236.3	241.8	247.5	253.4	259.7	266.2	273.0	280.1	287.7	295.7	304.1	313.2	322.8	333.1	344.2	356.2	369.4	383.8	399.9	417.9	438.4	462.2
39	224.5	229.5	234.7	240.1	245.7	251.5	257.6	264.0	270.7	277.7	285.1	292.9	301.2	309.9	319.3	329.2	340.0	351.6	364.2	378.1	393.3	410.4	429.7	451.8	477.8
40	228.0	233.1	238.4	244.0	249.7	255.7	261.9	268.5	275.4	282.6	290.2	298.3	306.8	315.9	325.6	336.0	347.2	359.3	372.6	387.2	403.4	421.6	442.3	466.4	494.9
41	231.6	236.8	242.2	247.9	253.8	259.9	266.3	273.1	280.1	287.6	295.4	303.8	312.6	322.0	332.1	342.9	354.6	367.4	381.4	396.8	414.0	433.5	455.9	482.1	513.8
42	235.2	240.6	246.1	251.9	257.9	264.2	270.8	277.8	285.0	292.7	300.8	309.4	318.6	328.4	338.8	350.2	362.4	375.8	390.5	406.9	425.3	446.2	470.5	499.4	534.8
43	238.9	244.4	250.1	256.0	262.2	268.7	275.4	282.6	290.1	298.0	306.4	315.3	324.8	334.9	345.9	357.7	370.5	384.6	400.2	417.6	437.3	459.9	486.5	518.5	558.6
44	242.7	248.3	254.1	260.2	266.5	273.2	280.1	287.5	295.2	303.4	312.1	321.3	331.1	341.7	353.1	365.5	379.0	393.9	410.4	429.0	450.1	474.7	503.9	539.7	585.8
45	246.5	252.2	258.2	264.4	271.0	277.8	285.0	292.5	300.5	309.0	317.9	327.5	337.8	348.8	360.7	373.7	387.9	403.6	421.2	441.1	463.9	490.7	523.1	563.7	617.7
46	250.4	256.3	262.4	268.8	275.5	282.5	289.9	297.7	305.9	314.7	324.0	333.9	344.6	356.1	368.6	382.2	397.2	413.9	432.6	454.0	478.8	508.3	544.5	591.1	655.9
47	254.4	260.4	266.7	273.3	280.1	287.4	295.0	303.0	311.5	320.6	330.2	340.6	351.7	363.7	376.8	391.2	407.0	424.8	444.8	467.9	495.0	527.7	568.7	623.3	703.6
48	258.5	264.6	271.1	277.8	284.9	292.3	300.2	308.5	317.3	326.7	336.7	347.5	359.1	371.6	385.4	400.5	417.4	436.3	457.9	482.9	512.7	549.3	596.4	661.9	766.5
49	262.6	269.0	275.6	282.5	289.8	297.4	305.5	314.1	323.2	333.0	343.4	354.6	366.7	379.9	394.4	410.4	428.3	448.6	471.9	499.2	532.2	573.7	628.8	710.0	857.9
50	266.9	273.4	280.1	287.3	294.8	302.7	311.0	319.9	329.4	339.5	350.3	362.0	374.7	388.6	403.8	420.8	439.9	461.7	487.0	517.1	554.0	601.6	667.8	773.4	1020.3
51	271.2	277.9	284.8	292.2	299.9	308.1	316.7	325.9	335.7	346.2	357.5	369.7	383.0	397.6	413.8	431.8	452.3	475.8	503.4	536.8	578.6	634.3	716.3	865.4	>1020.3

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