Question 1：

What would happen if the demand at market {{VALUE-MARKET}} increased by {{VALUE-NUMBER}}%

VALUE-MARKET: random.choice(markets)

VALUE-NUMBER: random.randrange(5,30)

1. What would happen if the demand at market c2 increased by 12%?
2. What would happen if the demand at market c4 increased by 23%?
3. What would happen if the demand at market c1 increased by 8%?
4. What would happen if the demand at market c3 increased by 17%?
5. What would happen if the demand at market c2 increased by 29%?
6. What would happen if the demand at market c1 increased by 15%?
7. What would happen if the demand at market c4 increased by 7%?
8. What would happen if the demand at market c3 increased by 21%?
9. What would happen if the demand at market c2 increased by 11%?
10. What would happen if the demand at market c1 increased by 26%?
11. What would happen if the demand at market c4 increased by 14%?
12. What would happen if the demand at market c3 increased by 19%?
13. What would happen if the demand at market c2 increased by 9%?
14. What would happen if the demand at market c1 increased by 30%?
15. What would happen if the demand at market c4 increased by 5%?
16. What would happen if the demand at market c3 increased by 24%?
17. What would happen if the demand at market c2 increased by 16%?
18. What would happen if the demand at market c1 increased by 10%?
19. What would happen if the demand at market c4 increased by 27%?
20. What would happen if the demand at market c3 increased by 13%?
21. What would happen if the demand at market c2 increased by 22%?
22. What would happen if the demand at market c1 increased by 18%?
23. What would happen if the demand at market c4 increased by 6%?
24. What would happen if the demand at market c3 increased by 25%?
25. What would happen if the demand at market c2 increased by 20%?
26. What would happen if the demand at market c1 increased by 28%?
27. What would happen if the demand at market c4 increased by 9%?
28. What would happen if the demand at market c3 increased by 15%?
29. What would happen if the demand at market c2 increased by 11%?
30. What would happen if the demand at market c1 increased by 19%?

Question 2：

What would happen if the demands at all market increased or decrease by {{VALUE-NUMBER}}%

VALUE-NUMBER: random.randrange(10,100)

30个问题：

1. What would happen if the demands at all markets increased by 23%?
2. What would happen if the demands at all markets decreased by 45%?
3. What would happen if the demands at all markets increased by 67%?
4. What would happen if the demands at all markets decreased by 18%?
5. What would happen if the demands at all markets increased by 89%?
6. What would happen if the demands at all markets decreased by 31%?
7. What would happen if the demands at all markets increased by 52%?
8. What would happen if the demands at all markets decreased by 76%?
9. What would happen if the demands at all markets increased by 14%?
10. What would happen if the demands at all markets decreased by 97%?
11. What would happen if the demands at all markets increased by 38%?
12. What would happen if the demands at all markets decreased by 55%?
13. What would happen if the demands at all markets increased by 72%?
14. What would happen if the demands at all markets decreased by 29%?
15. What would happen if the demands at all markets increased by 63%?
16. What would happen if the demands at all markets decreased by 41%?
17. What would happen if the demands at all markets increased by 85%?
18. What would happen if the demands at all markets decreased by 12%?
19. What would happen if the demands at all markets increased by 34%?
20. What would happen if the demands at all markets decreased by 58%?
21. What would happen if the demands at all markets increased by 91%?
22. What would happen if the demands at all markets decreased by 27%?
23. What would happen if the demands at all markets increased by 46%?
24. What would happen if the demands at all markets decreased by 79%?
25. What would happen if the demands at all markets increased by 15%?
26. What would happen if the demands at all markets decreased by 64%?
27. What would happen if the demands at all markets increased by 37%?
28. What would happen if the demands at all markets decreased by 82%?
29. What would happen if the demands at all markets increased by 53%?
30. What would happen if the demands at all markets decreased by 96%?

Question 3

Why are we using warehouse w1 for plant p1?

Why are we using warehouse w2 for plant p2?

Why do all the products flowing to c1 come from w1？

Why are there more products flowing from w1 to c2 than from w2?

Why do all the products flowing to c3 come from w2？

Why do all the products flowing to c4 come from w1?

Question 4

Can I use warehouse w1 only for market p1?

Can I use warehouse w2 only for market p2?

Can I use warehouse w1 for market p2?

Can I use warehouse w2 for market p1?

Can I use warehouse w1 only for market c1?

Can I use warehouse w2 for market c1?

Can I use warehouse w1 only for market c2?

Can I use warehouse w2 only for market c2?

Can I use warehouse w1 for market c3?

Can I use warehouse w2 only for market c3?

Can I use warehouse w1 only for market c4?

Can I use warehouse w2 for market c4?

Question 5

What if plant p2 can now supply only {{VALUE-NUMBER}}% percentage of its original capacity?

VALUE-NUMBER: random.randrange(10,99)

Or

What if plant p2’s capacity can be increased by{{VALUE-NUMBER}}% percentage

VALUE-NUMBER: random.randrange(10,99)

1. What if plant P2 can now supply only 37% of its original capacity?
2. What if plant P2's capacity can be increased by 68%?
3. What if plant P2 can now supply only 83% of its original capacity?
4. What if plant P2's capacity can be increased by 15%?
5. What if plant P2 can now supply only 52% of its original capacity?
6. What if plant P2's capacity can be increased by 91%?
7. What if plant P2 can now supply only 24% of its original capacity?
8. What if plant P2's capacity can be increased by 76%?
9. What if plant P2 can now supply only 65% of its original capacity?
10. What if plant P2's capacity can be increased by 29%?
11. What if plant P2 can now supply only 18% of its original capacity?
12. What if plant P2's capacity can be increased by 47%?
13. What if plant P2 can now supply only 72% of its original capacity?
14. What if plant P2's capacity can be increased by 33%?
15. What if plant P2 can now supply only 41% of its original capacity?
16. What if plant P2's capacity can be increased by 88%?
17. What if plant P2 can now supply only 56% of its original capacity?
18. What if plant P2's capacity can be increased by 12%?
19. What if plant P2 can now supply only 94% of its original capacity?
20. What if plant P2's capacity can be increased by 61%?
21. What if plant P2 can now supply only 27% of its original capacity?
22. What if plant P2's capacity can be increased by 79%?
23. What if plant P2 can now supply only 49% of its original capacity?
24. What if plant P2's capacity can be increased by 23%?
25. What if plant P2 can now supply only 85% of its original capacity?
26. What if plant P2's capacity can be increased by 54%?
27. What if plant P2 can now supply only 31% of its original capacity?
28. What if plant P2's capacity can be increased by 97%?
29. What if plant P2 can now supply only 63% of its original capacity?
30. What if plant P2's capacity can be increased by 42%?

# Question 6

The per-unit shipment cost from {{VALUE-Plant}} to {{VALUE-Warehouse}} w1 is now {{VALUE-NUMBER}}. How does that affect the total cost?

or

The per-unit shipment cost from {{VALUE-Warehouse}} to {{VALUE-market}} w1 is now {{VALUE-NUMBER}} . How does that affect the total cost?

VALUE-NUMBER: random.randrange(1,10)

The per-unit shipment cost from p1 to w2 is now 3. How does that affect the total cost? The per-unit shipment cost from w1 to c3 is now 2. How does that affect the total cost? The per-unit shipment cost from p2 to w1 is now 8. How does that affect the total cost? The per-unit shipment cost from w2 to c2 is now 5. How does that affect the total cost? The per-unit shipment cost from p1 to w1 is now 7. How does that affect the total cost? The per-unit shipment cost from w1 to c4 is now 1. How does that affect the total cost? The per-unit shipment cost from p2 to w2 is now 9. How does that affect the total cost? The per-unit shipment cost from w2 to c1 is now 4. How does that affect the total cost? The per-unit shipment cost from p1 to w2 is now 1. How does that affect the total cost? The per-unit shipment cost from w1 to c2 is now 8. How does that affect the total cost? The per-unit shipment cost from p2 to w1 is now 3. How does that affect the total cost? The per-unit shipment cost from w2 to c3 is now 3. How does that affect the total cost? The per-unit shipment cost from p1 to w1 is now 4. How does that affect the total cost? The per-unit shipment cost from w1 to c1 is now 9. How does that affect the total cost? The per-unit shipment cost from p2 to w2 is now 7. How does that affect the total cost? The per-unit shipment cost from w2 to c2 is now 9. How does that affect the total cost? The per-unit shipment cost from p1 to w2 is now 6. How does that affect the total cost? The per-unit shipment cost from w1 to c3 is now 7. How does that affect the total cost? The per-unit shipment cost from p2 to w1 is now 1. How does that affect the total cost? The per-unit shipment cost from w2 to c1 is now 6. How does that affect the total cost? The per-unit shipment cost from p1 to w1 is now 2. How does that affect the total cost? The per-unit shipment cost from w1 to c4 is now 7. How does that affect the total cost? The per-unit shipment cost from p2 to w2 is now 6. How does that affect the total cost? The per-unit shipment cost from w2 to c3 is now 8. How does that affect the total cost? The per-unit shipment cost from p1 to w1 is now 9. How does that affect the total cost? The per-unit shipment cost from w1 to c1 is now 5. How does that affect the total cost? The per-unit shipment cost from p2 to w2 is now 1. How does that affect the total cost? The per-unit shipment cost from w1 to c2 is now 3. How does that affect the total cost? The per-unit shipment cost from w1 to c3 is now 9. How does that affect the total cost? The per-unit shipment cost from w1 to c4 is now 2. How does that affect the total cost?

Question 7