### Ratthamnoon Prakitpong #63205165

1.

For both options, total profit is made up of 3 parameters:

Total profit (\$) = Total revenue (\$) – Production cost (\$) – Shipping cost (\$)

Option 1 equations for each parameters:

Production cost (\$) = Produce total (kg) \* Production cost (\$/kg) Shipping cost (\$) = Produce total (kg) \* Shipping cost(\$/kg)

Total revenue (\$) = Caught outcome given uniform range of probability of getting caught \*

Some sales price from normal distribution,

looped by number of shipments

 $= \sum_{\text{Number of shipments}} \sum_{\text{Produce total (kg)}} \sum_{\text{Cocaine per shipment (kg)}} \left( \text{IF(RAND()} > \text{RANDBETWEEN(Uniform)} \right)$ 

chance caught, lower (%), Uniform change caught, upper (%)), 1, 0)  $\ast$ 

NORM.INV(RAND(), Sales price (\$), Sale price stddev (\$)))

Option 2 equations for each parameters:

Production cost (\$) = Produce total (kg) \* Production cost (\$/kg) Shipping cost (\$) = Produce total (kg) \* Shipping cost(\$/kg)

Total Revenue (\$) = Caught outcome given fixed probability of getting caught \*

Some sales price from normal distribution,

looped by number of shipments

=  $\sum_{\text{Number of shipments}}^{\text{Number of shipments}}$  =  $\sum_{\text{Produce total (kg)}}^{\text{Number of shipments}}$  =  $\sum_{\text{Number of shipments}}^{\text{Number of shipments}}$  =  $\sum_{\text{Number of shipments}}^{\text{Number of shipments}}$  (IF(RAND() > Chance caught (%)), 1, 0) \*

NORM.INV(RAND(), Sales price (\$), Sale price stddev (\$)))

We will assume that shipment will be paid whether shipping is successful or not (we don't want a mutiny within ranks). We can put given information and derived formula into some sheet software and repeat it 250 times:

Option 1 simulation sample:

A	В	C	D	E	F	G	Н		J	K	L	M	N	0	P	Q	R	S	T	U
Given			Simulation																	!
Produce total (kg)	5000		Shipment nu		L	i	2			3			4			5				i
Production cost (\$/kg)	2000		Simulation n	Failure proba	Success?	Sale price	Failure proba	Success?		Failure proba	Success?	Sale price	Failure proba-	Success?		Failure proba-	Success?	Sale price		Total profit (
Cocaine per shipment (kg)	1000		1	11	L	1 14033.76097	15		1 9373.463389	14		1 15599.96243			1 11316.30595			1 12161.03331	62484526	
Shipping cost (\$/kg)	500		2	11	l	1,12274.91001	7		1 11111.87704			1 19483.76882			1 16696.58035			1 16976.40998		
Uniform chance caught (%), lower	5		3	9	9	1 14718.94076			0 12716.33182			1 14926.28197			1 18595.1275					3 49513011.2
Uniform chance caught (5), upper	15		4		7	1,18543.07901			1 13666.73951			1 12465.62331			1 12642.63986			1 18187.00544		
Sales price (\$)	14000		5	(	ò	1 18512 22972			1 14411.49261			1 13414.57987			1 16057.64177			1 12511.60104		
Sales price stddey (\$)	3000		6	(	6	1 16341.28911	14		1 12406.33448			1 13705.70416			1 19982.39796			1 10248.29506		
)			7	13	3	1 10401.37495	10		1 11570.05117			1 17881.01127			1 18439.85891			1 13170.01002		
Assumption			8	15	5	1,13398.55851	10		1 14643.1193			1 20507.32462			1 18362.81775			1 14616.63687	8152845	7 6902845
Pay for transport whether it's failed	d or succeeded		9			0 8169 623192	5		1 17370.31578			1 19490.57664			1 13551.82442			1 15490.40765		
3			10	15	5	1 13166.84851	9		1 11937.92355			1 10269.1932			1 15198.28049				63564583.15	
4 Calculated			11		7	1 14842.30343			1 13969.86507			1 16237.718			1 16780.45763			1 14036.82218		
5 Production cost (\$)	10000000		12	14	1	1,21775.78446	12		0 14642.8829			1 19504.79691			1 15730.36609			1 14964.35814		
5 Shipping cost (\$)	2500000		13	14	1	1 7227 823986	6		1 14088.75948			1 14614.34159			1 11979.74801			1 15333.80327		
7 Number of shipments	5		14		3	1 11148.28657	7		1 14312.584			1 13727.9258			1 17045.52181			1 9027.413294		
3 Total cost (\$)	12500000		15		3	1 17446.90021	8		1 16236.03249			1 15191.91477			1 14782.48271			1 13013.88497		
9			16		3	1,10338.32021			1 11214.9034			1 13777.76811			1 13503.29499			0 8825.19078		
1			17	11	L	0 13392 01489	15		1 8504 782594	6		1 13465 77093	14		0 16964 97438	13		1 14205 40161	36175955 14	1 23675955 1

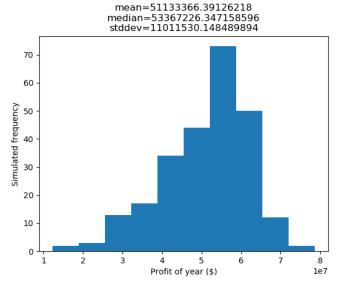
Option 2 simulation sample:

A	В	C	D	E	-	G	H	- 1	J	K	L	M	N	0	P	Q	R	S	T	U	V	W	X	Υ	Z
Given			Simulation																						
Produce total (kg)	5000		Shipment nur	•	1		2		3		4		5		6		7	1	3		9	1	0		
Production cost (\$/kg)	2000		Simulation nu	Success?	Sale price	Success?		Success?		Success?	Sale price	Success?	Sale price	Success?	Sale price	Total revenu									
Cocaine per shipment (kg)	500		1		1 10754.34487		1 8132.698229		1 15487.80056		1 15928.68304		1 12060.75853		1 16313.05038		1 14816.65206		11393.22243		1 14887.11915		1 18594.67561		
Shipping cost (\$/kg)	650		2		1 15584.36287		1 17645.20799		1 16068.88762		0 14345.66739		1, 20354.27089		1 16376.89839		1 13524.09456		16711.93607		1 15435.1341		1 13501.99872		
Chance caught (%)	5		3		1 18248.62344		1 13174.30712		1 11243.43907		1 12552.07998		1 19038.52851		1 9918.802585		1 12251.61718		14792.52309		0 13703.41607		1 15374.95423		
Sales price (\$)	14000		4		1 15140.37602		1 13326.25044		1 11895.68679		1 7356.149583		1 11003.00497		1 13715.69571		1 14074.03463		15979.50829		0 14699.22292		1 14889.29522		
Sales price stddev (\$)	3000		5		1 16763.14717		1 9827.493692		1 13193.49419		1 16202.42042		0 13118.49115		1 11166.39424		1 15301.23077		16003.99445		1 14370.33303		1 9854.573549		
			6		1 13418.13059		1 12106.67415		1 11934.53699		1 16316.84249		1 18821.27952		1 13144.98164		1 11102.9684		15307.52745		1 8667.564978		1 13360.96593		
Assumption			7		1 11194.79843		1 16935.19905		1 13242.06001		1 10235.96813		1 10383.83154		1 14197.85059		1 13000.17069		15236.17407		1 12295.94208		1 15319.08678		
Pay for transport whether it's t	failed or succeede	d.	3		1 15585.48189		1 7366.671096		1 16293.79149		1 17968.30964		1 9469.230817		1 10165.31053		1 13712.33615		16350.12132		1 13747.4663		1 8427.186922		
			9		1 17277.8005		0 19401.11539		1 11076.60264		1 9409.305321		1 9286.27396		1 11095.61943		1 16837.53822		18601.06811		1 12928.41466		1 14816.45277		
Calculated			10		1 13769.3698		0 14321.45033		1 10719.32401		1 13538.80237		1: 12680.55862		1 11481.32901		1 13707.93075		13164.97652		1 10480.66645		1 13128.39453		
Production cost (\$)	10000000		11		1 14139.78125		1 14391.62088		1 14057.74712		1 16323.10099		1 16396.42303		1 14236.8188		1 10966.96664		15548.70447		1 15902.58071		1 13563.15919		
Shipping cost (\$)	3250000		12		1 16352.71812		1 9945.678377		1 9825.080769		1 5435.43698		1 13125.68674		0 15828.21094		1 10243.87082		12956.83211		1 9441.105488		1 15663.04755		
Number of shipments	10		13		1 14475.69453		1 11269.23301		1 12290.58766		1 15494.25075		1 17106.22443		1 20467.02382		1 11931.80141		12876.47376		1 15890.87337		1 13524.33016		
Total cost (\$)	13250000		14		1 10913.64157		1 14236.69845		1 11957.08927		1 12400.07955		1 12498.80329		1 12902.47909		16297.07761		14618.92287		1 11786.58639		1 10023.15983		
			15		1 16805.80428		1 11468.94617		1 19825.0462		1 17252.54237		1 10025.48552		1 14315.78422		1 14270.10727		17231.39189		1 13506.86483		1 9087.324776		
			16		1 12086.12172		0 12371.14281		1 10281.71323		1 12375.87887		1 13202.80962		1 19849.50153		1 12458.32155		9898.556082		0 12681.89243		1 10196.70856		
			17		9651.0977		1 12485.72443		1 11063.73474		1 16618.17967		1 9600.921353		1 12400.96006		17098.12058		13060.59515	il .	1 14177.21909		1 13626.17066		
			18		0 16344.72473		1 16882.42358		1 11155.04581		1 11404.34072		1 18544.53232		1 11677.25073		1 8848.26357		14522.77281		1 10707.38135		1 19351.86322		
			19		0 18571.97614		1 15830.4338		1 10001.62051		1 18232.00766		1 11514.72485		1 12490.7429		1 10734.85037		12445.3253		1 13876.35519			59232383.4	
			20		1 8404.358437		1 14294.76459		1 17287.84725		1 14811.73931		1: 11748.13996		1 12193.46062		1 12990.984		12234.48116		1 13286.61637		1 7635.848085		
			21		1 14832.8437		1 17234.52148		1 19280.99578		1 11725.22123		1 15443.67953		1 19039.4912		1 18726,4756		15360.28858	į.	1 12913.29036		1 7883.08216	76219944.8	72969944

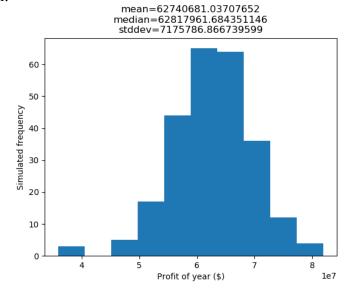
Sadly, the office software that I use can't plot frequency histogram. Therefore, I've ran a simulation (data from that simulation Appendix A), copied out total profit, and put it into a python script that I wrote. A benefit of using python is that we can trust that popular python libraries are robust and there's good internal logic for deciding bin size, number of bins, etc., so we can just plot our numbers with default settings. Also, we can make it calculate other values such as mean and standard deviation automatically for us:

```
import matplotlib.pyplot as plt
import numpy as np
import os
cwd = os.getcwd()
print(cwd)
option1 = [53859542.9221536,48068055.5568153,39441099.9702173,38197386.1471177,59963575.
plt.hist(option1)
plt.ylabel('Simulated frequency')
plt.xlabel('Profit of year ($)')
plt.title("Q1, option 1\nMean="+str(np.mean(option1))+", stddev="+str(np.std(option1)))
plt.savefig('q1-option1.png')
plt.cla()
plt.clf()
option2 = [63720232.2927411,56106540.2556289,51092698.7740412,61731076.4755671,67029861.
plt.hist(option2)
plt.ylabel('Simulated frequency')
plt.xlabel('Profit of year ($)')
plt.title("Q1, option 2\nMean="+str(np.mean(option2))+", stddev="+str(np.std(option2)))
plt.savefig('q1-option2.png')
```

### Option 1 frequency histogram:



### Option2 frequency histogram:



We can see that in 250 simulations, none of them lost money, so both options are at least viable. Comparing option 1 to option 2, option 1 has comparatively lower mean profit (by approx. \$1mil) and higher standard deviation (by approx \$4mil), which means that it's the riskier option (smaller mean profit, but more potential to earn more, but also more potential to earn less).

Truck shipment is recommended, since it'll make more money on an average year, and drug operations are often already very risky, so an obvious chance to lower risk is appreciated.

2. There are four possible outcomes. We can put them in a spreadsheet to calculate outcomes:

	Α	В	С	D	E	F	G	H
1	Scenario	Demand	Probability	Confiscated	Probability	Net probability	EAUB	Variance
2	1	High	40.00%	Yes	20.00%	8.00%	600000	28800000000
3	2	Low	60.00%	Yes	20.00%	12.00%	400000	19200000000
4	3	High	40.00%	No	80.00%	32.00%	3000000	2.88E+12
5	4	Low	60.00%	No	80.00%	48.00%	2000000	1.92E+12
6								
7						Expected <b>EAUB</b>	2016000	
8								
9							STDDEV	885293.1718

Calculating IRR:

PV of benefits – PV of costs = 0

2016000(P/A, i, 5) - 20000000 = 0

 $[(1+i)^5-1]/[i(1+i)^5]-2000000/2016000=[(1+i)^5-1]/[i(1+i)^5]-125/126=0$ 

After interpolating in some sheet software:

0.95 0.023234189
0.955 0.018390987
0.96 0.013591078
0.965 0.008833914
0.97 0.004118957
0.975 -0.000554321
0.98 -0.005186442
0.985 -0.009777919
0.99 -0.014329257
0.995 -0.018840951
1 -0.023313492

IRR = i = 0.9725 = 97.25%This rate of return is very high.

Per rule of thumb ("If the expected present worth is at least double the standard deviation of the present worth, then the project is relatively safe."), we can see that 2\*STDDEV = 1770586.344 < 2016000, therefore our expected value is at least double the standard deviation and our risk passes the rule of thumb test.

Therefore, we can see that the rate of return is very high, and the risk is acceptable, so moving forward with this investment is recommended.

Bonus:

Medellín Cartel

Appendix A in following pages:

Given		Simulation		
Produce total (kg)	5000	Shipment num		
Production cost (\$/kg)	2000	Simulation nu F		
Cocaine per shipment (kg)	1000	1	11	1
Shipping cost (\$/kg)	500	2	8	1
Uniform chance caught (%), lower	5	3	10	1
Uniform chance caught (5), upper	15	4	8	1
Sales price (\$)	14000 3000	5 6	9	1
Sales price stddev (\$)	3000	7	6	1
Accumption		8	13	1
Assumption	r cucocodod	9	8 7	1 1
Pay for transport whether it's failed o	i Succeeded.	10	5	1
Calculated		11	5	1
Production cost (\$)	10000000	12	12	1
	2500000	13	14	1
Shipping cost (\$) Number of shipments		14	10	0
Total cost (\$)	5 12500000	15	6	1
Total Cost (\$)	12500000	16	13	0
		17	10	1
		18	15	1
			7	
		19 20	8	1
		20	15	1 1
		22	15	
		23		1 1
		23 24	8 9	1
		25 25	13	1
		26	6	1
		27	11	1
		28	12	1
		29	6	1
		30	10	1
		31	14	1
		32	15	0
		33		1
		34	5 5	1
		35	14	0
		36	13	1
		37	15	1
		38	5	1
		39	13	0
		40	13	1
		41	15	1
		42	9	1
		43	8	1
		43	5	1
		45	5	1
		46	10	1
		40	10	1

47	12	1
	12	
48	15	1
49	15	1
50	7	1
51	7	1
	12	1
52	12	1
53	12	1
54	8	1
55	7	1 1
56	5	1
57	15	0
58	14	1
59	7	1
	10	1
60	12	1
61	7	1
62	10	1
63	10	1
64	13	1
65	12	0
66	7	1
	15	0
67	13	
68	11	1
69	10	1
70	14	1
71	14	1
72	15	0
73	7	1
74	6	1
75	14	1
		1
76	11	1
77	12	1
78	8	1
79	6	1
80	10	0
81	11	1
82	11	1
83	10	0
84	13	0
85	13	0
86	12	1
87	13	1
88	11	1
89	14	0
90	10	1
91	12	1
92	6	1
93	10	1
94	10	1
95	9	1

96	15	1
97	12	1
98	6	1
99	12	1
100	13	1
101	6	1
102	11	1
103	12	1
104	12	1
105	12	0
106	5	1
107	7	1
108	10	1
109	7	1
110	14	1
111	8	1
112	12	1
113	14	1
114	14	1
115	11	1
116	5	1
117	14	0
118	11	0
119	9	1
120	13	1
121	8	1
122	13	1
123	14	1
124	15	1
125	7	1
		1
126	8	
127	13	1
128	14	0
129	8	1
130	12	0
131	11	1
132	9	1
133	13	1
134	9	1
135	9	1
136	14	1
137	10	1
138	7	1
139	14	0
140	6	1
141	5	1
142	12	1
143	15	1
144	14	1

1 45	15	1
145	15 10	1 1
146 147	10 13	0
		1
148	14 11	
149 150	11 13	1 1
150 151	8	0
151 152	0 10	1
152 153	11	1
153 154	14	1
15 <del>4</del> 155	15	1
155 156	12	1
157	7	0
158	12	1
159	14	1
160	13	0
161	13	1
162	11	1
163	6	1
164	11	1
165	10	1
166	12	1
167	15	1
168	5	1
169	5	1
170	9	1
171	5	1
172	9	1
173	10	1
174	9	1
175	5	1
176	9	1
177	13	0
178	11	1
179	14	0
180	12	1
181	15	1
182	7	1
183	14	1
184	5	1
185	11	1
186	10	1
187	9	1
188	15 o	1
189	8	1
190 101	5	1
191 192	6 15	0 1
192	15 12	0
190	12	U

194	15	1
195	13	0
196	7	1
197	8	0
198	8	0
199	11	1
200	10	0
201	14	1
202	5	0
202	12	1
203	6	1
205	11	1
206	15	1
207	12	1
207	15	1
208	5	1
210	5	1
210	14	1
212	14	1
213	5	0
214	8	0
215	15	1
216	13	1
217	7	1
218	10	1
219	12	1
220	14	1
221	11	1
222	9	1
223	6	1
224	6	1
225	12	1
226	7	1
227	9	1
228	14	1
229	9	1
230	6	1
231	11	1
232	13	1
233	6	1
234	13	1
235	14	1
236	11	1
237	11	1
238	5	1
239	14	1
240	5	1
241	15	1
242	5	1
	9	_

243	11	1
244	11	1
245	5	1
246	7	1
247	11	1
248	14	1
249	14	1
250	7	1

	2			3		
Sale price	Failure probabSuccess?		Sale price	Failure probabSuccess?		Sale price
15421.6086		1	13209.4775			12587.71431
16952.83032	13	1	21738.68354	10	0	16216.1775
16010.99307	8	1	11911.18835	14	0	12327.81738
14261.83856	15	1	12221.8722	11	0	11955.88092
11562.83879	10	1	17376.63235	11	1	15110.02308
11732.87511	. 9	1	10708.25291	10	1	12782.17939
16673.54233	15	1	17894.29044	14	1	8085.134374
15411.24281	. 10	1	12196.48912	13	0	15532.03094
17902.21366	9	1	10537.70797	9	1	13479.53167
15603.72417	14	1	11691.69995	12	1	13213.9161
18283.77891	. 9	1	10331.09803	8	1	18144.02929
12934.22987	6	1	14897.80899	13	1	11633.90411
17282.4845	14	0	11954.09515	9	0	18147.06231
14082.7404	. 7	1	20080.70832		1	18465.09027
20167.36388	12	0	12035.91016		1	8785.636434
14003.53233	5	1	10425.04084	12	1	3683.383359
10455.13782	9	1	12690.89127	10	1	11561.28551
13996.51243	13	1	13957.5948	9	1	15538.89066
19754.60266	9	1	15436.19257	11	1	16005.00819
8342.262008		1	14964.79013		1	11049.79806
16903.37057		1	13467.44349		1	14186.18499
16222.54837		1	12835.09287		1	
15260.13999		1			1	16818.81278
11214.67309		1	19282.68482		1	15479.4221
18136.13579		1	13161.19283		1	
15031.40158			13602.07659		0	14001.32688
9861.816428		0		14	1	15891.70788
12414.43884		1	10688.92873		1	16819.93539
15058.29431		1	11061.77969		1	13885.5095
14230.98236		1	15027.62441		1	12684.7793
14342.28689		1	14625.11352		0	17772.22158
12081.92093		1	13819.83948		1	13272.27749
10713.5896			11310.75678			16941.91442
14707.71257			12815.32376			13052.19594
20587.42312			17205.02383			12468.18883
12979.48317			12708.07776			13010.12592
14642.3044			8792.728596			15550.38739
11209.95299			15044.11136			11340.51872
11396.50755			17589.47336			14882.40946
19711.76487			6713.049621			13808.06592
14944.36669			12403.79135			11411.50011
19081.83442			14424.79485			17457.26773
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17398.95954			9589.819999		1	16441.5525
22509.82453			11873.20681			11342.29479
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4	5	
Failure probatSuccess?	Sale price Failure probabSuccess?	Sale price Total revenue
11	1 11849.29996 8	1 13291.44255 66359542.92
8	1 10467.00434 14	1 11409.53736 60568055.56
13	1 13215.23817 15	1 10803.68038 51941099.97
15	1 13067.17742 12	1 11146.49796 50697386.15
6	1 16003.02382 5	1 12411.05712 72463575.17
15	1 19497.46826 15	1 16121.84831 70842623.98
12	1 14573.92532 9	1 15285.44353 72512335.99
14	1 15151.87303 11	1 18042.67505 60802280.02
8	1 13665.56095 9	1 13031.34103 68616355.28
9	1 13665.56095 13	1 9648.209631 63823110.8
10	1 18142.06496 12	1 11787.64368 76688614.88
15	1 14525.69205 5	1 18808.05672 72799691.75
14	1 13811.05369 9	1 12601.08838 43694626.58
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9	0 9046.354058 8	1 14167.80498 43120805.29
6	1 16043.99152 9	1 15174.59858 45327014.3
5	1 17196.46452 15	1 12311.00681 64214785.95
7	1 12622.98354 10	1 12668.43647 68784417.89
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5	1 13038.83496	14	1 15011.12155 67742779.77
14	1 13771.69604	7	1 15608.29981 74233931.66
6	1 14165.61604	7	1 13825.65021 74792592.58
9	1 10882.44199	8	1 14608.07428 63222043.23
13	1 17009.83677	15	1 16811.87073 73963079.79
12	1 15011.3547	6	1 12993.17968 70930156.76
6	1 17709.6236	12	1 11156.59641 74370026.9
14	1 17254.25097	12	1 15653.85396 66405538.71
6	0 12068.44597	5	1 18869.17732 50585433.73
6	1 15230.06275	15	1 12647.8142 55226571.87
6	1 13464.93193	10	1 9029.277891 55661181.05
9	1 12586.69654	11	1 14917.13119 67089086.07
15	1 14495.34999	11	1 12208.05088 64721396.01
12	1 13587.76472	7	1 12845.52278 69957149.3
6	1 12763.1006	14	1 15452.79227 70127050.02
5	1 17341.32848	5	1 13186.53059 69159614.28
15	1 14264.90462	7	1 13349.03199 70963098.77
15	1 12183.11644	7	1 13461.8855 35962262.62
15	1 15701.92019	7	1 19640.54998 64286139.64
11	1 19564.51105	15	1 12868.3804 48914824.47
12	1 13754.36288	8	1 14173.8993 75000518.1
14	1 14106.12616	5	1 6836.856449 49969732.58
14	1 17411.26001	6	1 10353.57825 76917926.27
7	1 12465.13069	9	1 16862.90616 76072031.5
5	1 15394.39873	10	1 11973.72538 67669288.29
10	1 11228.83163	10	1 10847.54174 54354961.32
7	1 7408.164427	15	1 12098.18495 47165170.7
10	1 8418.50293	10	1 19992.90878 69834251.16
14	1 17889.14844	13	1 14072.28947 73326908.26
12	1 15801.98212	6	1 11519.02557 51357815.3
9	0 17444.00292	5	1 14688.58559 41988757.8
6	1 19456.70488	12	1 9414.050175 57586666.94
8	1 17015.43156	15	1 19433.89925 75836126.19
11	1 10598.63707	8	1 16256.61099 53555320.21
13	1 11707.52969	14	1 13806.65026 61489407.15
7	1 10701.21269	6	1 19396.47319 68317986.58

9	1 11035.66061	6	1 16289.58814 70787822.79
9 7	1 13471.75848	12	1 9747.908544 66127039.36
12	1 18256.75184	5	1 17510.54136 65969547.39
10	0 16558.18065	11	1 17474.61282 52344662.9
14	1 12691.90314	15	1 13915.03573 71563684.55
15	1 10516.44436	10	1 12217.56279 61836672.04
14	0 8792.012319	10	0 20564.28302 25317422.2
5	1 12341.13807	14	1 9400.446598 59995634.22
15	1 11371.39206	6	1 12515.3966 61208478.88
15	0 14254.87668	15	0 14769.94561 37648378.55
14	0 12368.50278	8	1 14893.99294 59777096.93
5	1 12260.23264	6	1 11370.31824 63704438.28
9	1 13561.9216	7	1 19085.37987 54940193.45
11	1 12460.84366	15	1 17529.56032 81607922.98
5	1 15502.38182	9	1 9414.577518 66698165.59
5	1 12232.27469	6	1 15705.28319 53736772.4
13	1 18375.7757	13	0 9579.616597 54822674.83
8	1 9377.930285	6	1 15040.373 69683913.91
7	1 13126.2336	11	1 9919.571253 66092233.81
15	1 11440.3278	10	1 14724.45817 70846792.28
10	1 18854.93566	9	1 20558.13433 91207214.97
9	0 9883.861336	6	1 16888.7819 58037639.84
10	1 15406.29843	6	1 15640.66662 82133437.1
10	0 14520.2476	11	1 10751.71406 55142152.9
6	1 17274.76724	5	1 17786.73373 57853157.3
9	1 12837.35246	13	1 17001.72665 68040796.53
5	0 9842.620353	14	1 13594.69409 52085386.98
13	1 15997.83873	14	1 14779.60558 80604559.8
9	0 13222.08207	10	1 10737.84617 52804042.92
15	1 14064.49251	15	1 8845.923724 74856470.87
13	1 9886.599507	10	1 11224.07129 63716744.59
8	1 8053.745545	11	1 12768.67587 79231653.48
5	1 11409.14844	7	1 15960.25474 58400981.13
7	1 16198.05281	13	0 18138.34153 63180037.8
12	1 20471.75324	14	1 15081.76527 48059336.58
15	1 14600.32283	6	1 13170.59373 52548572.41
11	1 17595.25765	9	1 15406.2274 78290216.47
7	1 16132.09382	6	1 14213.22097 74722186.19
9	1 14590.05074	9	1 11636.80773 63807629.74
15	1 8698.019585	6	1 7754.530406 63279141.71
7	1 12940.21979	8	1 9863.576408 67476890.55
8	1 19708.77485	12	1 13946.66533 76808729.33
8	1 13805.75459	5	1 16791.02188 72401407.63
5	1 16365.48488	12	1 20508.63807 52115709.73
15	1 10590.56146	6	1 14065.32877 43776084.89
5	1 14443.58984	5	1 18981.72105 74489829.07
11	1 16244.24917	6	0 15365.52184 46184656.21
15	1 9300.19323	10	1 9878.893876 68621639.37
11	1 12672.44027	5	1 13085.43098 55979954.74

12	1 12835.60189	15		16958.98612	
5	1 11029.30234	12		16594.64568	
14	0 12786.31328	7		18922.57909	
15	1 13607.61635	12		12447.71899	
11	1 15681.3457	6		20109.62057	
5	0 17077.29006	10		9044.600545	
15	1 13816.85748	15		11847.66423	
5	1 12429.96197	11		16187.62979	
13	1 11948.80815	6		12032.23788	
7	1 12769.48831	5		8868.614916	
9	1 14622.23938	11		18616.78188	
15	1 13650.4474	9		16667.86882	
10	0 18697.99309	10		15232.89142	
10	1 10746.4826	10	1		66128063.46
10	1 17159.21365	10		8874.192422	
10	1 13144.08624	10		10133.85265	
8	1 15337.18608	9		11362.95274	
13	1 11116.74885	5	1	19727.69248	75743630.68
13	1 9789.972071	13		14537.99049	
10	1 17533.69	13	1	14737.12855	
7	1 15598.24621	11	0	12647.7027	43371836.29
10	1 14629.60266	5	1	13953.81944	73005083.5
11	1 14742.3718	9	1	13390.79745	68303211.4
10	1 14967.1683	9	1	15912.70888	69825642.7
7	1 16457.52379	6	1	13790.59401	63773077.88
10	1 14641.31901	14	0	15515.63535	65653143.56
7	1 19486.63275	12	1	19726.07662	80367826.53
8	1 12350.70325	9	1	15320.14091	71772622.71
10	1 13297.17407	13	1	9639.747116	56834202.16
12	1 13618.13062	10	1	13953.32371	66930250.55
7	1 11516.18483	7	1	19127.66666	65804826.74
11	1 14890.66573	13	1	10375.54433	50382024.62
10	1 14964.57378	7	1	13218.34691	81074739.7
5	1 12042.9779	11	1	17754.63276	71952081.52
9	1 12572.64795	7	1	14392.95794	73958916.12
14	1 7914.477226	9	1	14189.24829	69445557.01
12	1 18326.96662	15	0	12259.59269	45732884.69
6	1 8444.309571	12	1	12169.06008	59656119.58
6	1 16400.37302	9	1	17416.76197	46924271.6
7	1 15121.4102	13	1	16790.3457	73382443.68
13	1 10685.57947	6	1	16862.83373	71859984.16
7	1 16738.50389	7	1	10821.53198	65085837.85
5	1 12811.79882	11	1	12315.92548	63565622.97
15	1 15170.84155	7	1	16005.39331	75265648.5
8	1 15158.40609	9	1	18452.31253	80004740.95
9	1 18487.36028	12		12899.77139	
15	1 12322.55464	10		17053.12674	
12	1 14981.9596	6		12763.01437	
15	1 10991.80954	9		12789.63692	

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( )	1-	n	n	TΙ	n	n	
v	_	v	ν	u	v		_

12	1 15289.86927	9	0 11651.5876 61559500.66
7	1 18538.93547	9	1 14437.30829 77042171.12
13	1 13407.20713	9	1 13489.7081 74081420.53
13	1 16064.47477	14	1 14649.0846 69799498.71
11	1 7893.38536	14	1 14810.42905 71203218.03
11	1 10720.09188	12	1 12002.28959 36808229.69
13	1 14263.39985	7	1 19076.71876 74486139.32
11	1 16259 17178	12	1 16366 56074 81649651 25

Total profit (\$) 53859542.92 48068055.56 39441099.97 38197386.15 59963575.17 58342623.98 60012335.99 48302280.02 56116355.28 51323110.8 64188614.88 60299691.75 31194626.58 47213473.06 30620805.29 32827014.3 51714785.95 56284417.89 60145264.8 56320025.2 59494116.59 55158124.54 42696173.64 60967057.89 45039168.5 30448513.86 48775253.64 59525316.65 57184234.84 53674705.48 45665882.56 49812914.16 52992848.64 63242816.64 28502173.7 42485012.46 53086213.29 49107006.86 49634224.41 55522762.22 55375615.39 52411511.07 48265460.63 45463841.25 66681347.27

46025477.39 40402484.66 58122032.76 53429625.95 48652152.21 62163118.82 62872986.16 54029390.28 55694949.06 48629310.72 57622119.02 56745534.28 45839529.95 60897401.3 45559724.28 56269310.86 68632129.51 57737116.85 41256270.36 59168579.19 35171953.68 37487085.07 56294963.69 61373786.95 61126614.96 41507460.03 56043253.86 55384419.99 48595260.38 64650653.55 53535893.63 62316844.61 57052887.3 30189966.92 32870126.8 57959287.01 52762761.59 33425796.79 27790451.71 54912803.82 32657950.66 30551226.81 12224510.35 43606590.58 41546998.67 44577970.61 73656762.31 41804864.06

53479008.6 52927604.09 61530633.23 31898534.55 62614655.32 59980526.22 69665888.01 59376587.77 61606465.63 51168497.39 58404689.24 44033115.03 57092982.71 55242779.77 61733931.66 62292592.58 50722043.23 61463079.79 58430156.76 61870026.9 53905538.71 38085433.73 42726571.87 43161181.05 54589086.07 52221396.01 57457149.3 57627050.02 56659614.28 58463098.77 23462262.62 51786139.64 36414824.47 62500518.1 37469732.58 64417926.27 63572031.5 55169288.29 41854961.32 34665170.7 57334251.16 60826908.26 38857815.3 29488757.8 45086666.94 63336126.19 41055320.21 48989407.15

58287822.79 53627039.36 53469547.39 39844662.9 59063684.55 49336672.04 12817422.2 47495634.22 48708478.88 25148378.55 47277096.93 51204438.28 42440193.45 69107922.98 54198165.59 41236772.4 42322674.83 57183913.91 53592233.81 58346792.28 78707214.97 45537639.84 69633437.1 42642152.9 45353157.3 55540796.53 39585386.98 68104559.8 40304042.92 62356470.87 51216744.59 66731653.48 45900981.13 50680037.8 35559336.58 40048572.41 65790216.47 62222186.19 51307629.74 50779141.71 54976890.55 64308729.33 59901407.63 39615709.73 31276084.89 61989829.07 33684656.21 56121639.37

54500928.03 47707951.13 52301323.14 29781473.96 56177339.32 31843796.47 36829917.89 45323215.46 40515788.46 53165970.78 62630317.86 48441594.83 53948903.07 53628063.46 51314384.21 48834118.27 46320914.01 63243630.68 48735529.26 48926819.06 30871836.29 60505083.5 55803211.4 57325642.7 51273077.88 53153143.56 67867826.53 59272622.71 44334202.16 54430250.55 53304826.74 37882024.62 68574739.7 59452081.52 61458916.12 56945557.01 33232884.69 47156119.58 34424271.6 60882443.68 59359984.16 52585837.85 51065622.97 62765648.5 67504740.95 55671088.7 65271206.39 58128740.84

49059500.66 64542171.12 61581420.53 57299498.71 58703218.03 24308229.69 61986139.32 69149651.25

Given	5000	Simulation	
Produce total (kg)	5000	Shipment num	1
Production cost (\$/kg)	2000	Simulation nu Success?	Sale price
Cocaine per shipment (kg)	500	1	1 13404.72867
Shipping cost (\$/kg)	650	2	1 13070.13186
Chance caught (%)	5	3	1 8450.987425
Sales price (\$)	14000	4	1 8903.197797
Sales price stddev (\$)	3000	5	1 17532.48115
		6	1 15967.62927
Assumption		7	1 10663.48252
Pay for transport whether it's failed	or succeeded.	8	1 15301.296
Caladatat		9	1 11038.27147
Calculated	10000000	10	1 13648.47488
Production cost (\$)	10000000	11	1 13292.96214
Shipping cost (\$)	3250000	12	1 16222.84206
Number of shipments	10	13	1 13936.56554
Total cost (\$)	13250000	14	1 18142.34365
		15	1 17951.1414
		16	1 14138.5769
		17	0 15340.69544
		18	0 5229.792083
		19	0 13984.73004
		20	1 12592.37582
		21	1 13051.28546
		22	0 13010.24371
		23	1 11681.41397
		24	1 14963.73953
		25	1 20568.46846
		26	1 13117.68142
		27	1 12000.08554
		28	1 9452.298678
		29	1 12710.81436
		30	1 13576.71483
		31	1 15945.92834
		32	1 11497.39982
		33	1 11650.58512
		34	1 17743.47699
		35	1 13821.7406
		36	1 11921.81892
		37	1 15536.46544
		38	1 15640.18436
		39	1 16453.71733
		40	1 14614.15283
		41	1 8452.458689
		42	1 15948.84581
		43	1 14416.67994
		44	1 12579.17247
		45	1 15848.81354
		46	1 11957.60874

47	1	9296.541988
48	1	15562.16063
49	1	19065.14809
50	1	18266.0585
51	1	17188.67869
52	1	16462.30374
53	1	8263.696012
54	1	14899.97438
55	1	16048.44918
56	1	10453.20647
57	1	12972.52897
58	1	15417.61649
59	1	13385.0756
60	1	16148.67182
61	0	18347.11556
62	1	17871.76752
63	1	
		19269.73436
64	1	18119.33185
65	1	17253.49312
66	1	17897.99345
67	1	14779.77563
68	1	11318.65022
69	1	12945.42516
70	1	13324.6104
71	1	15816.69433
72	0	7100.122078
73	1	10930.04316
74	1	13101.35534
75	1	15743.97481
76	1	13313.04502
	1	
77		15379.47169
78	1	14155.6734
79	1	13846.14796
80	1	14913.87091
81	1	15876.75923
82	1	5794.271768
83	1	11570.14811
84	1	11924.42807
85	1	13178.92775
86	1	15728.88094
87	1	12629.03432
88	1	17330.06402
89	1	16344.80833
90	1	14444.70307
91	1	14411.83662
92	1	
		16907.25796
93	1	14015.70293
94	1	13510.90782
95	1	11557.0141

96	1 10255.64842
97	1 13638.42968
98	0 10924.30333
99	1 12558.30861
100	1 14541.88057
101	1 10774.04575
102	1 14778.08676
103	1 16848.96848
104	1 13197.47988
105	1 10839.7204
106	1 15737.50438
107	1 17607.40813
108	0 19293.99814
109	1 12565.39835
110	1 18540.83785
111	1 10556.30832
112	1 16161.07289
113	0 12409.77763
114	1 17587.38922
115	1 16613.78607
116	1 15083.54311
117	0 17463.37933
118	1 14027.46221
119	1 16089.64891
120	1 14184.08278
121	0 9536.774189
122	1 13288.15498
123	1 11074.97044
124	1 12900.69438
125	1 7714.132385
126	1 17205.76685
127	1 16588.57654
128	1 16008.85194
129	0 14616.3993
130	1 17662.8161
131	1 14362.37236
132	1 4853.016091
133	1 13342.68662
134	1 15305.65889
135	1 14675.90588
136	1 16617.08689
137	1 13988.42047
138	1 15300.10567
139	1 8774.399145
140	1 16067.63548
141	1 14888.07461
142	1 12417.0196
143	1 16808.01748
144	1 16533.37827

145	1 15995.94499
146	1 15117.30955
147	1 12405.21619
148	1 14362.37236
149	1 17739.71563
150	1 14223.58304
151	1 14602.31757
152	1 16127.49012
153	1 13479.88346
154	1 14967.23249
155	1 10199.15696
156	1 13652.66027
157	1 15910.55358
158	1 9393.420723
159	1 15049.2265
160	1 19623.31103
161	1 13848.95594
162	1 17192.78584
163	1 14559.05481
164	1 18257.44641
165	1 11609.54231
166	1 10699.83837
167	1 17238.49044
168	1 10720.94023
169	1 16969.67362
170	1 12469.91689
171	1 11716.83191
172	1 19391.94371
173	1 15452.35972
174	0 16515.09301
175	1 18586.38719
176	1 16781.66173
177	1 18554.56041
178	1 16619.74651
179	1 7383.912443
180	1 14021.04731
181	1 13945.19104
182	1 10625.38313
183	1 11877.69307
184	1 14164.30663
185	1 14525.87732
186	1 16000.39112
187	1 7718.052886
188	1 13483.28646
189	1 16286.89773
190	1 14532.38286
191	1 14155.79046
192	1 11155.22035
193	1 15753.77736
100	1 10100.11100

104	1 12006 72510
194	1 13086.72518
195	1 15895.70653
196	1 10624.43358
197	1 15572.07212
198	1 14064.11487
199	1 14553.17693
200	1 14830.70524
201	1 14179.94954
202	1 15870.00882
203	
204	1 9827.233196
205	1 8576.944653
206	1 11412.40289
207	1 13760.04086
208	1 12341.95752
209	1 13085.13899
210	1 11503.8216
-	
211	1 11202.37623
212	1 16085.50697
213	1 13259.39535
214	1 16909.6743
215	1 14826.87359
216	1 17250.60467
217	1 18516.61977
218	0 12940.82095
219	1 16439.78933
220	1 19584.29317
221	1 16295.23483
222	1 14518.21753
223	1 14601.45938
224	
225	1 14970.17491
226	1 17190.09092
-	
227	1 16426.28233
228	1 8560.682449
229	1 16434.93719
230	0 16265.30368
231	1 19393.95742
232	1 15282.00277
233	1 15267.67902
234	1 11847.85401
235	1 15591.26512
236	1 16794.89548
237	1 11326.46805
238	0 12763.62759
239	1 17434.65956
240	1 7485.89347
241	1 14306.30203
242	1 17871.33818
_ 1 <i>_</i>	1 1.0.1.00010

243	1 13734.46886
244	1 11012.06482
245	1 9381.049447
246	1 17186.93251
247	1 14524.83576
248	1 14371.34616
249	1 15518.73239
250	1 12504.11274

	2	3	}	4	5
Success?	Sale price Success?		Sale price Success?	Sale price Success?	
	1 10997.16919	1	9160.945921	1 16220.42548	1
	1 8141.217766	1	16946.83927	0 14989.9598	1
	1 13641.88005	1	. 10973.71676	1 15149.28789	1
	1 11254.10391	1	17905.55881	1 19144.16545	1
	1 15419.02806	1	. 16707.32231	1 17621.82067	0
	1 13091.88958	1	. 12111.73948	1 17816.63727	1
	1 9810.675909	1	9417.060996	1 8756.983712	1
	1 9496.116362	1	17532.48287	1 14016.5502	1
	0 16363.99052	1	14352.38356	1 12530.19776	1
	0 18446.65242	1	13723.65679	1 16391.21874	1
	1 11619.58372	1	13148.34837	1 11078.14922	1
	1 17405.96338	1	16266.78987	1 15784.00262	1
	1 13218.49122	1	11582.161	1 14724.83141	1
	1 10250.61842	1	. 10814.42023	1 11641.79629	1
	1 19805.48786	1	17009.0984	1 12603.97222	1
	0 13337.87926		11252.39613	1 15014.88111	1
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	1 13633.02956	1	. 11873.58002	1 12691.19377	1
	1 20054.27722	1		1 16164.12249	1
	1 12213.52367		10176.95054	1 11526.04674	1
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	1 10846.15486		17216.31852	1 17523.26494	1
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	1 12251.45734		13355.17454	1 15130.67071	1
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	1 17793.8567		9294.011333	1 10898.59451	1
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	1 5965.583425		11964.39706	1 12372.44369	1
	1 15518.90471		10426.02509	1 15740.7348	1
	1 14449.56223		16705 75063	1 10723.9333	1
	1 17056.96409		16705.75962	1 10284.42254	1
	1 16506.31197		15039.69929	1 17711.81597	1
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Sale price	Success?		Sale price	Success?		Sale price	Success?		Sale price
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13949.96606	6	1	7481.793677	7	1	18399.2009	)	1	20527.14328
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15599.94407	7	1	9178.502976	S .	1	10769.37697	7	1	13565.37516
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14020.59495	1	11942.90205	1	17533.71516	1	17346.2176
12243.22646	1	14843.79847	1	13997.57223	1	10724.68695
15585.95856	1	17502.07554	1	11180.92438	1	15989.17887
17765.47864	1	14375.56813	1	14783.73956	1	16343.00497
13349.83149	1	17502.7025	1	11378.82391	1	9091.351986
16908.03704	1	12366.48808	1	14636.75069	1	13670.59644
14189.67984	1	12452.97955	1	13796.53653	1	16062.51033
12383.94056	1	9500.683466	1	15663.72011	1	18243.06127
18532.97177	1	11846.21662	1	12920.5588	1	15509.17819
14768.11363	0	9619.503049	1	12033.58991	1	18539.73904
9431.206506	1	15255.52362	1	15549.92449	1	14792.20933
8624.394836	1	15622.29048	1	15285.40208	1	12893.16398
10180.78562	1	12300.0952	1	14888.87119	0	14834.21983
17485.20499	1	10924.2113	1	16044.21376	1	9865.31149
10411.7229	1		1	8339.793858	1	14070.7787
14160.04929	1	16694.30507		10773.81762	1	14891.26916
9455.840087	1		1	11310.35556		12817.10201
12525.02635	1	13281.51632	1	13914.04024	0	6879.104077
16566.32898	1		1	16479.0854	1	
16679.12889		17842.01414	1	16601.67599		18203.77956
10137.16816	1	13820.2805	1	9070.793766	0	16337.22269
15012.00115	1	11790.84452	1	19232.04375	0	15534.5188
15849.09037		12173.30243	1	14642.11207	1	14241.70154
15269.04043		14182.51696		13945.35154		10641.77259
9303.548024	1			14128.29033		11826.92572
10295.08828		19207.82082		17096.76801		11602.77603
15849.98653		13038.88058	1	12110.7316		15633.61036
16306.58299		13711.70577		13180.15064		6376.450381
14554.00003		9943.816447		11196.15348		11207.15752
8318.489865		12824.19854		9595.145091		14066.23029
13848.57898		15552.63678		12028.67777		18178.41134
14877.36719		12720.62287		15090.32475		13521.53615
11237.74797		14562.39793		17788.25474		13966.43234
	-		-		-	

13149.32879	1	16002.54462	1	13853.87591		14168.81294
15391.78871	0		1	10373.5515		12962.64723
15533.97932	1	12586.886	1	9438.015677		14112.92102
14731.39634		14966.95946		13941.66443		16115.31512
12472.31462		9657.019958	1	8292.889861		13352.74339
14608.22846	1	11180.33778	1	16072.42951		11589.02239
16902.06318	1	15264.73577	1	11532.24472	1	13122.57829
16873.49933	1	15364.5171	1	13057.40896	1	11846.31528
14652.01265	1	15187.59803	1	16113.0621	1	11908.58471
7067.528758	1	13781.91437		17783.60915	1	14360.45186
11494.57849	0	11343.21501	1	17294.87113	1	15610.1133
16147.60089	1	15720.53215	1	15641.37841	1	13874.23679
14939.35283	1	12598.94731	1	14359.4427	1	18722.78044
13425.80462	0	14937.64008	1	9899.225596	1	21318.57754
15188.13071	0	15846.29381	1	14961.88763	1	14368.07615
16941.4008	1	16398.50307	1	18666.35985	1	14431.62944
17820.4852	1	17720.05811	0	11955.29805	1	13977.44551
16035.9357	1	8402.224819	0	18712.2636	0	16370.79681
13818.25739	1	12979.09785	1	11621.2604	1	9743.879093
13207.25589	1	18318.7489	1	8291.388971	1	22011.21841
16900.09852	0	17721.11738	1	14396.43514	1	18715.46882
16734.54025	1	14751.46022	1	11598.84935	1	10630.30102
13499.94344	1	8298.151206	1	11523.22582		14838.10427
14118.42063		19029.89675		16488.26704		10454.75834
15623.5772		16721.88079		17467.93101		17766.44579
8715.387557		12470.61454		11425.48061		14573.63752
13135.67287		15465.90747		9804.688304		13511.03544
13935.55752	1	14237.5268	0	12637.28553		9947.414933
14869.31099	1	20721.2564	0	14725.51319		15431.71475
12703.0619	1	11650.8857	1	14444.9938		19163.83611
14398.47642	1	16605.9489	1	13318.08862		19400.99683
13706.84731		11191.93655		18049.64518		15486.25324
14739.38938		19238.72313	1	13566.79766	1	
15799.40192		14616.20882		16554.47743		14482.75888
11862.1821		11186.30475	1	16185.22059		11263.05933
17365.43942		14897.37729		12267.76669		11507.06707
15556.51197		12462.37664		18450.58648		14776.92316
12018.98554		13922.93062	1	14925.9956		12185.96857
16253.09622		14138.09679	_	10111.74455	1	9479.33456
12739.21096		14163.00354	1	12494.8141	_	14735.44112
16395.59101		13666.23959		12520.09258		12747.49301
13818.47226	1	13458.8806		12421.18878		12995.51157
11894.66425		9959.381462		16904.30422		18759.89329
19251.13136		15454.49767		16020.72944	1	14726.8985
13494.50075		12080.24103		19057.36217		17463.49844
15937.97619		15188.37357	0	15860.36796	1	17241.1438
11940.68022		20791.51401	_	17426.64105	_	14976.76001
12661.16581		11496.42096		11546.31338		11321.77723
14738.95286		11173.41911		12219.85553		14026.30072
T+1 00.30700	1	1111 J.41311	1	17719.00000	1	14020.30012

17638.42906		16726.55405		13509.54412	0	7941.387685
7349.569531		12007.64822		13969.81828	0	10687.63652
16760.79354		5969.838863	1	13428.19004		17872.18317
15472.75225		12477.32011	1	13567.2791		14226.02152
11929.61369	1	9622.025538	1	12727.99313	1	13516.13918
8707.961509	1	12485.24215	1	15467.75169	1	16277.52279
17863.19211	1	14480.3382	1	12430.60944	1	14435.17493
9825.205771	1	6765.170132	1	14142.00748	1	12536.11188
15299.65793	1	15076.4065	1	10392.53556	1	16906.46044
16453.32714	1	12780.84866	1	8198.401985	1	14527.69654
16980.0137	1	15646.03684	1	10786.80894	1	13881.3104
12205.13936	1	11621.24974	1	12621.99842	1	20261.20331
10800.87921	1	10929.94605	1	17271.31009	1	18290.27715
14267.21538	1	12782.66039	1	14789.76624	1	12081.5658
7506.8274	1	14336.28887	1	13729.55318	1	14105.29321
11290.08338	1	9427.743804	1	4641.547656	1	17766.91681
12938.46039	0			19649.72377		13633.81056
16650.7081	1			10098.70497		14862.26783
15513.42342		10785.09157		16918.16648		8876.621401
14967.8571		12661.11227		17520.71683		13949.57325
16204.65311	1			14726.93398	1	18245.85835
10534.44211	1			14260.59473	1	10710.10247
15389.42677	_	15222.95278		20089.97081	<del>-</del>	21622.16778
14601.5207		15642.55722		16846.87495	1	
14767.25813		9063.496197		19283.36205	1	16866.2066
13107.09705	1			15572.45526		14815.58203
14344.18616		16133.59247	1	16132.1163		16527.57226
18866.79016		14123.48535		16635.84566	1	15707.7246
16250.30151		12077.06925		17327.28256		13012.04678
				7918.979376		11514.33398
16167.40874		11429.92089				
16848.51565		12822.42105		13153.06984		18523.70607
10719.9738		15631.70163		14306.12417	1	
9247.7769	1			15885.57457	1	
12782.7502	1			16001.04663	1	
12598.54953		16531.86685		11837.47286	1	12447.3233
13305.4448		13092.92803		10407.11051		16567.25419
15241.34856		14671.19008		14526.06987		11023.16833
19025.7438		11311.25627		16256.74384		11982.30249
7771.388437		14422.75337		10554.23657		12383.94648
17533.33141		13962.39086		14622.27864		14059.17517
7621.268006		18070.75806		14065.49631		14736.99023
11667.19272	1	11891.03321	1	15648.28513	1	12476.55691
9420.026787	1	12413.4905	1	15792.12583	1	13803.52461
13093.67186		14753.27682		14253.66467		9912.655562
12955.29393	1	10128.92299	1	10624.87886	1	16152.39543
23025.68437	1	11532.28836	0	11624.69704	1	15787.347
17679.83161	1	10334.8783	1	15025.54298	1	16375.82371
14771.35888	1	11003.16802	1	10734.49205	1	13637.04387
15612.42991	1	9685.59389	1	15973.82575	1	15923.6743

17529.66849		17785.20111		17463.43833		15495.24094
8918.139842		13677.61186		16979.58816	1	10953.01911
14656.32334		14845.73892	1	17479.15758	0	
16844.22785	1	17490.93128	1	14974.4563	1	20482.56199
12546.45785	1		1	12388.68989	1	
9723.890987	1		1	13035.04562	1	9032.52537
16363.47715	0	13839.5329	1	18149.65406	1	13279.78253
11317.25154	1	15573.40243	1	11809.94854	1	12024.21758
14700.32501		16806.08656	0	10891.57783	1	11533.20058
8366.371764		15935.15143	1	12039.69203		8986.628489
15301.96084	1	11106.40159	1	14494.0098	1	12555.90339
12082.47294		14032.18523		12004.96951	1	13304.1163
16893.46374	1	15897.78903	1	12645.89275	1	21535.73749
8479.159018	1	14716.33137	1	12637.21678	1	19459.64148
16082.26706	0	14613.33659	1	11245.25497	1	12669.38001
11773.81488	1	18071.40369	1	12529.41038	1	10378.66447
15675.23274	1	18199.64479	1	13149.72244	1	11485.36473
15903.58001	1	19917.32845	1	10001.25021	1	12439.10113
15998.34139	1	15810.4245	1	12744.34894	1	14733.80396
12832.65696	1	6651.111495	1	11920.64312	1	9652.436274
15342.70849	1	10574.36514	1	15746.8385	1	13207.81867
14434.6719	1	13234.47675	1	15301.20299	1	16715.08175
16762.25938	1	13087.14931	1	15552.96367	1	13401.40281
13289.4241	1	16524.8058	1	4869.704901	0	13933.85754
15126.45503	1	15515.98742	1	13219.43894	0	15219.60741
14239.79644	1	15579.38393	1	14695.44279	1	13424.94897
14543.32629	1	13233.05468	1	17354.71621	1	17191.11104
12621.83235	1	16475.57669	0	13932.78537	1	13570.96636
15312.96345	1	12271.9907	1	15967.89742	1	15270.63496
20894.31443	1	13639.06425	1	15339.27502	1	15401.42919
14559.13483	1	15404.27097	1	14900.81594	1	14004.0863
16480.04234	1	14590.32724	1	12786.17031	1	15040.19831
8313.695071	0	12913.58512	1	8477.600318	1	15904.04105
18913.7117	1	11094.43797	1	16591.29072	1	13292.76068
13653.19957	1	18067.85567	1	12252.74749	1	11387.84794
15475.25954	1	15965.02869	1	13189.51286	1	14077.38037
10635.68337	1	15098.25522	1	12779.87211	1	16135.53071
18022.47132	1	7266.896162	1	17321.74707	0	13249.99963
14605.60312	1	19946.2911	1	12202.69178	1	11162.68265
17089.81432	1	10552.5597	1	18455.98026	1	16380.33041
12494.54453	1	14560.76404	1	15531.86918	1	8624.968763
7542.187055		15749.19233		17692.89861		10905.87637
15720.48499	1	9039.516743	1	7596.340309	1	15383.77817
11023.82631		19271.51565	1	11453.73782		8376.404558
16648.0138		17771.51813		15503.68416		8949.559576
13835.08862		15339.96326		11712.84658		16032.68173
16942.82255		12013.81854		16683.40663		17471.06965
14686.34829		13570.55401		13479.64519		14513.34883
14803.36939		10663.33651		18886.75773		15344.92785
	· ·		_		ū	

14469.85847	1 13957.13705	1 13796.4421	1 21585.19434
12103.86682	1 19893.09214	1 16500.88703	1 15799.96265
18988.22506	1 8491.73863	1 11922.98652	1 10469.00036
11960.34481	1 14434.25166	1 14986.92063	1 16209.57902
15491.03188	1 10265.47405	1 9741.070664	1 15406.34736
15369.77935	1 9798.769644	1 11098.30321	1 10404.14161
13224.79407	1 11340.30002	1 15645.60782	1 12854.59232
14207.92151	1 6373.836562	1 15496.5449	1 9533.912078

	9		10			
Success?	Sale price	Success?		Sale price	Total revenue	Total profit (\$)
	1 12573.1910	2	1	15760.43759	66970232.29	63720232.29
	1 13409.7720	5	1	14145.23783	59356540.26	56106540.26
	0 14226.8566	6	1	11569.08201	54342698.77	51092698.77
	0 22986.6952	1	1	12397.02307	64981076.48	61731076.48
	1 17225.235	9	1	15265.87117	70279861.2	67029861.2
	1 13926.5781	3	1	13579.57775	71373039.16	68123039.16
	1 11902.2672	5	1	11530.68009	54973706.47	51723706.47
	1 14988.143	1	1	17953.28308	69200535.39	65950535.39
	1 13568.6377	2	1	14310.30789	66715614.95	63465614.95
	1 11904.7993	3	1	24733.77109	66750182.44	63500182.44
	1 18401.0490	2	1	4613.4554	56415279.7	53165279.7
	1 10407.2678	1	1	15092.82803	65079600.11	61829600.11
	1 12193.0119	6		12978.13899		
	1 15056.1015	7		17506.09472		
	1 17471.3864	8	1	10690.94865	72941162.01	69691162.01
	0 12650.3373	1	1	7503.225977	54485658.2	51235658.2
	1 16703.6765		1		55569895.96	
	1 11993.7766	8	1	13345.77236	64227144.12	60977144.12
	1 14440.8651	5	1	9166.191646	57522801.99	54272801.99
	1 14492.7748	9		15526.50533		
	1 21117.0397	3	1	14315.33811	69837072.91	66587072.91
	1 13739.425		1	16140.81524	69187234.29	65937234.29
	1 7803.60395	7	1	12038.80824	65020723.23	61770723.23
	1 18529.3285		1	20751.31287		
	1 18371.1418		1		73731691.26	
	1 17175.3063		1		69456182.05	
	1 14373.5050					
	1 13295.2681			12133.71436		
	1 11512.7729	_		11533.92557		
	1 11326.0938			15466.57909		
	1 11937.0569			13114.48607		
	1 13682.7505			16120.64068		
	1 11298.4817			15737.75603		
	1 19415.9775			12416.55384		
	1 15546.8375			13485.57768		
	1 11463.026			13835.86085		
	1 18328.8274			11517.47202		
	1 13792.9197			15737.21523		
	1 21100.8993		1	16856.28467		
	0 14634.0318		1		68904988.85	
	1 10934.8505			11720.39509		
	1 13599.5340			11602.52448		
	1 18471.2877			11895.57088		
	1 12870.6936			17231.21729		
	1 8401.18961			17449.49513		
	1 13500.6570	4	1	12891.34936	62646397.35	59396397.35

1 12479.89561 57180926.8 53930926.8 1 16743.40773 1 9544.911615 1 14469.00587 67973798.31 64723798.31 1 15552.45496 64933224.5 61683224.5 1 5782.845491 1 13808.94841 74444536.41 71194536.41 1 15259.93307 1 13472,77029 1 15714.85875 84845251.83 81595251.83 1 14078.11989 1 18676.45488 73734571.64 70484571.64 1 13240.87772 1 14071.20835 58669188.91 55419188.91 1 9025,246829 65097072,78 61847072,78 1 9069.321845 1 10773.05825 67102616.09 63852616.09 1 10685.31756 1 14437.03441 72701126.02 69451126.02 1 13884.22806 1 11532.66272 17795.5907 74467101.93 71217101.93 1 13593.67972 1 17792.04479 76343472.58 73093472.58 1 16225.69653 1 14547.82075 70825008.67 67575008.67 16694.0325 1 11048.70064 66741809.43 63491809.43 1 11759.92151 52688676.72 49438676.72 1 13929.54865 1 7225.550302 1 11613.61799 66377608.31 63127608.31 13728.329 1 14430.25768 73724819.13 70474819.13 1 1 14772.60233 0 17445.34839 59263974.55 56013974.55 1 7593.168916 1 9925.398262 65046446.2 61796446.2 1 11405.54853 78168944.27 74918944.27 1 11317.47486 1 15553.49691 1 16226.71225 69576093.32 66326093.32 1 9471.927392 49091452.96 45841452.96 1 11930.75058 1 12952.76523 72271289.68 69021289.68 1 22986.69521 1 9344.596397 1 11203.65401 65635683.56 62385683.56 1 14860.96791 1 13403.37232 64072090.42 60822090.42 1 10951.48715 12745.134 53894351.19 50644351.19 1 13385.38239 1 15693.10406 68658287.84 65408287.84 1 11070.44704 64106668 1 6350.467391 60856668 1 9298.663049 55730004.04 52480004.04 1 15138.59658 1 8917.446904 1 13448.76351 65959161.43 62709161.43 1 12041.32529 60514763.9 57264763.9 1 14076.26969 1 14556.86926 72764338.62 69514338.62 1 17639.31069 1 10527.05325 15457.3097 64298871.69 61048871.69 1 12569.64861 1 11665.09211 62307089.58 59057089.58 1 8770.052946 67138709.9 63888709.9 0 13577.46389 1 10449.93605 0 13066.04897 64554170.95 61304170.95 1 11646.70833 42117698.67 38867698.67 0 17961.95047 1 12894.90609 10497.6612 59709623.16 56459623.16 1 17780.05704 10599.35559 65394065.22 62144065.22 1 13010.60908 60170594.93 56920594.93 1 13061.76031 1 17510.19371 0 15807.11147 61266447.3 58016447.3 1 8490.425591 1 15020.78303 71380022.69 68130022.69 1 13372.50766 1 14250.21177 69969806.62 66719806.62 1 6597.150202 59752129.86 56502129.86 0 13630.92593 1 14554.28063 1 14650.40919 62438468.43 59188468.43 1 11150.43795 1 17462.36299 63829448.06 60579448.06 0 11488.08623 65713979.59 62463979.59 1 18545.11716 0 14877.63254 39140203.64 35890203.64 0 18708.85549 1 15606.1885 14333.1723 68475016.21 65225016.21

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1	16506.20443		12742.15811		
1	17007.11906	1	13412.35859	60018832.73	56768832.73
1	12541.2887	1	15326.65161	55951686.23	52701686.23
1	13340.04254	1	8220.253101	61197583.83	57947583.83
1	14682.1845	1	10157.1478	59433689.07	56183689.07
1	10700.29613	1	15426.02934	58066184.35	54816184.35
1	10394.7566	1	11044.51605	59876217.98	56626217.98
1	15751.70383	1	8934.970755	68556580.55	65306580.55
1	8420.985921	1	14286.87207	62219079.22	58969079.22
1	13313.40206	1	12472.68845	63767117.37	60517117.37
0	13771.27195	1	18871.28971	60552901.75	57302901.75
1	11616.87691	1	18039.24704	72606987.9	69356987.9
1	11933.8146	1	14953.73568		
_	10912.78284		16471.02079		
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0	16939.53211	_	12120.35232		
1	13006.71267		11143.18014		
_	18517.87698		17309.77181		
1	6719.408618		13660.67842		
1	13625.30441		10063.14149		
1	16667.4497		9536.792939		
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1	12698.95651		14428.24191		
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	14665.76138		12970.96734	65127460	
	12553.39605		16105.47994		
	12164.76552		13553.80454		
1	14033.07189		16021.22265		
1	14082.3562		16649.49383		
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1	17411.33664	1	13144.7672	63219429.5	59969429.5
1	18765.77617	1	12753.91015	71072732.37	67822732.37
1	10628.04623	1	13950.83911	69829376.48	66579376.48
1	10114.34771	1	11232.87952	72417517.75	69167517.75
1	12985.02864	1	12824.31281	62146491.62	58896491.62
1	11210.82678	1	9912.732049	73557221.41	70307221.41
1	16029.99416	1	14570.90984	63672860.01	60422860.01
1	15344.75324	1	14396.77901	71872145.14	68622145.14
1	14413.9293	1	12932.89994	61556388.03	58306388.03
1	9775.203395	1	16291.87897	72739135.23	69489135.23
1	15214.4828		18516.58793		
1	18812.68432		10744.17823		
			_		

1	19138.12227	1	15835.61205	69406113.16	66156113.16
1	11740.33901	1	22014.7876	56303398.78	53053398.78
1	15948.26319	1	11423.08379	68615861.39	65365861.39
1	10398.4858	1	13914.15427	70433339.32	67183339.32
1	12969.81041	1	11351.63303	60081135.56	56831135.56
1	11039.48164	1	14183.76564	70560682.49	67310682.49
0	14380.27707	1	9862.635069	54140803.77	50890803.77
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	20805.60735		9843.118767		
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1	15753.8573		11898.91598		
1	17013.86119	1	11956.64988	70641134.36	67391134.36
1	14490.21973	1	12112.57241	74420245.39	71170245.39
1	9917.523781	1	20619.42411	76670214.54	73420214.54
1	9040.173331	1	15396.31693	58543933.03	55293933.03
1	20562.54483	1	13232.3911	85204471.99	81954471.99
1	11028.10988	1	11182.05379	70499152.05	67249152.05
1	17175.5556	1	13778.38847	80121136.48	76871136.48
1	14724.66908	1	13509.17129	72075848.63	68825848.63
0	8364.505775		11826.53511		
1	16136.14147	1		74530478.58	
1	14412.01276		18858.12998		
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1	12842.44803		17829.55903		
1	16448.1494		17806.69432		
1	15344.04563		13311.01757		
1	13811.75638		11558.58284		
_			14280.93204		
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	14948.11855		15974.70426		
	12837.61202		15203.84158		
	12748.69764		11667.06743		
	11256.05413		16082.53652		
	12633.49658		10696.34374		
1	17328.34763		11622.77636		
1	10281.73331	1	13348.64073		
1	12021.41516	1	10855.76249	63353364.32	60103364.32
1	10069.81434	1	15709.65684	63451915.19	60201915.19
1	16824.95233	1	11979.433	71099850.55	67849850.55
1	15459.34016	1	12923.97567	67052958.88	63802958.88
1	14421.39477	1	12518.18525	69420022.17	66170022.17
0	9706.261406	1	7638.47555	57721193.7	54471193.7
1	13179.97938	1	10771.9835	68732676.17	65482676.17

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1	15035.47992			66542629.77	
0	18105.47878	1		58931924.08	
1	10018.8082	1		78487132.75	
1	9913.580673	1	14004.50325	66119876.05	62869876.05
1	13967.43044	1	16155.17157	67605964.5	64355964.5
1	13806.43695	1	14711.77238	64623905.93	61373905.93
1	11014.5002	1	10298.52657	63460853.2	60210853.2
1	10132.28021	1	10499.97757	60859944.54	57609944.54
1	12217.92462	1	11768.57069	58945073.11	55695073.11
1	13133.33421	1	17715.64277	65381662.36	62131662.36
1	17084.94038	1	14353.37715	58762409.85	55512409.85
1	17567.29455	1	10995.27345	70710883.32	67460883.32
1	15900.45885	1	12816.95345	68824240.46	65574240.46
1	15021.62387	1	11685.89484	65462804.6	62212804.6
0	14616.91375	1	14842.35301	64058328.46	60808328.46
1	15652.82944	1	8653.728943	60631168.66	57381168.66
1	11729.11737	1	11166.88214	64951777.02	61701777.02
1	13127.04586	0	14829.47373	66265130.37	63015130.37
1	9888.971954	1	14326.57704	63982309.69	60732309.69
1	12712.69194	1	13547.47649		
1	14638.5175	1	15264.29567	72542863.4	
1	13770.2651			76109547.24	
1	16394.81653			59395366.46	
1	13061.50386			53406698.82	
1	16748.96254			73792858.97	
1	14899.10001			73838501.12	
1	15224.39451			64460016.43	
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1	13944.1909	1		74367984.03	
1	17198.61364			74789671.42	
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1	13925.28085			74829153.95	
1	14610.3558			67264548.55	
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	22055.46538			69844248.01	
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1	13997.63225	1	11793.97158	53657417.45	50407417.45

1 16886.15095	1	18425.96776	70800485.58	67550485.58
1 12730.69094	0	16152.28361	63980953.78	60730953.78
1 15496.75191	1	10201.22485	63102284.82	59852284.82
1 14123.67743	1	17252.88713	75417456.59	72167456.59
1 15993.08683	1	9408.804011	66016047.32	62766047.32
1 12966.69857	1	14034.32354	62293377.2	59043377.2
1 5336.380117	1	14966.59	60934722.72	57684722.72
1 15562.19607	1	17535.80452	68661530.97	65411530.97