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81,893.12

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$$I=B\times i$$

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P1=P0/ 1+n

P1= P0+A×k / 1+k

P1= P0+A×k / 1+n+k

P1=P0-D

P1 P0-D+A×k / 1+n+k

P0 n k

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Q=V/P

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81,893.12

1		44,118.51	44,118.51
2		17,274.61	17,274.61
3		20,500.00	20,500.00
			81,893.12

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2016 2017 2018

[2017] ZA90102

[2018] ZA90374 [2019] ZA90094

2019

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	2019.3.31	**2018.12.31**	**2017.12.31**	**2016.12.31**
	149,288.91	160,167.32	166,288.79	168,885.16
	74,603.61	108,377.11	44,895.69	20,911.48
	152.78	1,966.09	326.23	4,262.00
	74,450.83	106,411.02	44,569.45	16,649.48
	34,828.74	10,106.14	9,761.58	16,117.64
	3,120.80	2,317.74	1,587.79	1,319.71
	61,423.18	45,301.36	62,356.18	67,969.65

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	2019.3.31	2018.12.31	2017.12.31	2016.12.31
	1,920.88	542.18	1,231.62	3,395.68
	325,186.12	326,811.84	286,121.65	278,599.32
	220.99	220.99	220.99	220.99
	2,823.71	2,039.94	-	-
	43,275.79	44,339.73	42,606.91	35,346.66
	24,252.96	21,562.95	7,913.28	7,351.08
	20,170.93	20,349.99	20,969.24	15,415.81
	46.44	42.09	52.62	-
	1,870.93	1,775.53	1,493.91	1,527.65
	2,207.75	2,208.91	2,270.87	1,537.76
	94,869.49	92,540.13	75,527.81	61,399.95
	420,055.61	**419,351.97**	**361,649.46**	**339,999.27**
	88,000.00	88,000.00	4,000.00	4,000.00
	68,033.63	79,087.89	69,701.45	50,897.85
	367.28	367.28	3,163.44	5,300.00
	67,666.35	78,720.62	66,538.01	45,597.85
	39,295.24	24,179.78	56,925.30	89,687.40
	624.12	3,268.72	3,538.66	-
	979.33	2,483.10	2,218.64	3,490.88
	2,772.03	2,805.11	2,340.80	1,403.08
	-	-	4,000.00	-
	199,704.34	199,824.61	142,724.86	149,479.22
	-	-	-	4,000.00
	-	-	234.73	1,998.44
	5,662.74	5,676.95	5,733.79	5,586.35
	5,662.74	5,676.95	5,968.52	11,584.79
	205,367.08	**205,501.56**	**148,693.38**	**161,064.01**
	87,450.30	87,450.30	48,583.50	46,270.00
	40,946.26	40,946.26	96,576.20	89,128.99
	-132.20	-254.21	-14.39	-2.81
	9,618.60	9,618.60	7,565.18	5,654.84
	67,714.98	67,050.12	52,820.72	37,884.23

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	2019.3.31	2018.12.31	2017.12.31	2016.12.31
	205,597.94	204,811.07	205,531.21	178,935.26
	9,090.58	9,039.34	7,424.87	-
	214,688.52	**213,850.41**	**212,956.08**	**178,935.26**
	420,055.61	**419,351.97**	**361,649.46**	**339,999.27**

2018 3

51% 2017 2018 2019 1-3

2017 2016

2

	2019 1-3	2018	2017	2016
	32,783.17	**265,328.02**	**250,717.89**	**195,956.27**
	32,783.17	265,328.02	250,717.89	195,956.27
	32,027.40	237,774.36	226,731.87	178,628.06
	26,617.43	207,693.63	199,210.71	156,257.64
	313.39	1,026.16	795.02	763.16
	453.97	2,837.33	2,506.98	2,469.42
	386.82	8,603.45	7,432.61	8,866.48
	3,016.01	16,368.92	16,326.87	10,531.91
	730.72	58.19	510.55	-382.78
	509.04	1,186.68	-50.87	122.23
	-	-	123.75	2.00
	-	3.72	-47.71	0.62
	43.06	306.64	1,828.36	-
	798.83	**27,864.02**	**25,890.42**	**17,330.83**
	4.23	7.88	37.86	793.11
	1.40	53.76	27.09	101.20
	801.66	**27,818.13**	**25,901.18**	**18,022.74**
	85.55	3,848.60	3,219.37	2,520.14
	716.11	**23,969.53**	**22,681.81**	**15,502.60**
	716.11	23,969.53	22,681.81	15,502.60
	664.86	22,355.06	21,025.01	15,502.60

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	2019 1-3	2018	2017	2016
	51.24	1,614.47	1,656.80	-
	122.01	-239.82	-11.58	-2.81
	122.01	-239.82	-11.58	-2.81
	122.01	-239.82	-11.58	-2.81
	122.01	-239.82	-11.58	-2.81
	838.12	**23,729.71**	**22,670.23**	**15,499.79**
	786.87	22,115.24	21,013.43	15,499.79
	51.24	1,614.47	1,656.80	-
	0.01	0.33	0.25	0.39
	0.01	0.33	0.25	0.39

3

	2019 1-3	2018	2017	2016
	81,187.63	186,701.18	216,425.37	185,924.14
	16.28	152.92	596.05	822.38
	1,073.96	563.90	2,586.75	2,881.40
	82,277.87	187,417.99	219,608.16	189,627.92
	76,741.06	192,617.67	181,269.09	170,564.65
	6,888.42	20,420.42	19,740.83	18,833.10
	2,193.42	8,623.69	7,310.62	7,227.26

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	2019	**1-3**	**2018**	**2017**	**2016**

	2019 1-3	2018	2017	2016
	134,687.51	**149,715.09**	**156,823.93**	**159,142.32**

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	2019.3.31	2018.12.31	2017.12.31	2016.12.31
	146,714.23	154,841.33	161,597.98	167,830.79
	35,793.00	68,274.89	9,938.37	20,055.11
	28,451.08	5,046.17	6,254.80	16,141.04
	9,401.73	5,395.65	1,388.65	1,392.20
	50,125.07	37,066.91	57,103.92	66,143.57
	1,486.36	414.92	1,220.91	3,381.38
	271,971.46	271,039.86	237,504.63	274,944.09
	220.99	220.99	220.99	220.99
	13,021.77	13,021.77	3,644.43	3,644.43
	2,823.71	2,039.94	-	-
	37,979.60	38,929.81	36,901.32	35,062.10
	24,252.96	21,562.95	7,922.72	7,360.52
	20,403.58	20,565.04	21,196.20	15,731.63
	1,408.54	1,359.72	1,233.52	1,269.08
	2,207.75	2,208.91	2,270.87	1,537.76
	102,318.89	99,909.14	73,390.05	64,826.51
	374,290.35	**370,949.00**	**310,894.68**	**339,770.60**
	88,000.00	88,000.00	4,000.00	4,000.00

	2019.3.31	2018.12.31	2017.12.31	2016.12.31
	-	-	-	4,000.00
	-	-	234.73	1,998.44
	5,662.74	5,676.95	5,733.79	5,586.35
	5,662.74	5,676.95	5,968.52	11,584.79
	167,807.28	**165,529.82**	**112,311.78**	**159,858.54**
	87,450.30	87,450.30	48,583.50	46,270.00
	40,994.20	40,994.20	87,246.80	85,803.10
	-132.20	-254.21	-14.39	-2.81
	9,618.60	9,618.60	7,565.18	5,654.84
	68,552.16	67,610.28	55,201.80	42,186.93
	206,483.07	**205,419.18**	**198,582.90**	**179,912.06**
	374,290.35	**370,949.00**	**310,894.68**	**339,770.60**

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	2019 1-3	2018	2017	2016
	18,462.60	**210,750.74**	**199,709.25**	**180,535.95**
	13,114.37	160,301.87	154,715.61	141,934.83
	304.09	813.20	647.81	752.84
	322.68	2,536.77	2,548.37	2,302.35
	386.82	8,678.92	7,432.61	8,866.48
	2,261.75	13,210.09	13,882.66	9,460.76
	733.31	188.45	528.51	-375.91
	325.45	936.99	-379.33	116.92
	-	-	123.75	2.00
	-	3.72	-44.93	0.62
	43.06	306.64	1,828.36	-
	1,057.18	24,394.80	22,240.21	17,480.31
	4.23	**7.28**	**37.86**	**793.11**
	-	49.05	27.09	98.81
	1,061.41	**24,353.03**	**22,250.97**	**18,174.61**
	119.53	3,818.88	3,147.59	2,480.83

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	2019 1-3	2018	2017	2016
	941.88	**20,534.14**	**19,103.39**	**15,693.78**
	941.88	20,534.14	19,103.39	15,693.78

122.01 -

	2019 1-3	2018	2017	2016
	4,418.56	13,437.60	10,252.96	9,090.54
	-	21,621.49	-	-
	4,418.56	35,059.09	10,252.96	9,090.54
	-4,418.56	**-35,035.89**	**-9,914.56**	**-6,198.62**
	-	-	-	72,214.80
	-	88,708.49	4,000.00	8,000.00
	-	88,708.49	4,000.00	80,214.80
	-	8,708.49	4,000.00	8,000.00
	949.02	1,774.30	1,988.94	340.53
	-	-	-	811.00
	949.02	10,482.79	5,988.94	9,151.53
	-949.02	**78,225.70**	**-1,988.94**	**71,063.27**
	-11.40	-9.39	-132.24	23.03
	-12,276.28	**-7,829.00**	**-5,773.84**	**49,438.37**
	144,485.11	**152,314.11**	**158,087.95**	**108,649.58**
	132,208.83	**144,485.11**	**152,314.11**	**158,087.95**

1 2016

2016 2015

1		300	300	100%

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2		2,000	2,000	100%
3		1,000	1,000	100%

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2017 2016

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2018 2017

2017

1		100	100	51%

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2019 1-3 2018

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	2019.3.31/ 2019 1-3	**2018.12.31/ 2018**	**2017.12.31/ 2017**	**2016.12.31/ 2016**
	1.63	1.64	2.00	1.86
	1.12	1.34	1.48	1.27
	48.89%	49.00%	41.12%	47.37%
	44.83%	44.62%	36.13%	47.05%
	0.36	3.51	8.19	12.12
	0.50	3.85	3.06	2.41
	0.08	0.68	0.71	0.66
	2,797.64	32,985.77	29,459.26	21,000.00
	1.93	78.01	63.81	53.93
	-0.17	-0.08	-0.15	1.05

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	2019.3.31/ 2019 1-3	2018.12.31/ 2018	2017.12.31/ 2017	2016.12.31/ 2016
	-0.11	-0.57	0.09	-0.35
	1.18%	3.24%	2.96%	4.52%

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2019 1-3		0.32%	0.01	0.01
		0.30%	0.01	0.01
2018		10.53%	0.33	0.33
		9.98%	0.30	0.30
2017		10.80%	0.25	0.25
		9.13%	0.21	0.21
2016		11.98%	0.21	0.21

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		11.53%	0.20	0.20

1 =P E0 NP 2 Ei Mi M0 Ej Mj M0 Ek Mk M0

P

NP E0

Ei

Ej M0

Mi Mj

Ek

Mk

2 =P S0 S1 Si Mi M0 Sj Mj M0-Sk

P

S S0 S1

Si Sj

Sk M0 Mi

Mj

3 =[P+ 1-

]/ S0 S1 Si Mi M0 Sj Mj M0 Sk+

P

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	2019.3.31		**2018.12.31**		**2017.12.31**		**2016.12.31**	
	149,288.91	35.54%	160,167.32	38.19%	166,288.79	45.98%	168,885.16	49.67%

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	2019.3.31		2018.12.31		2017.12.31		2016.12.31	
	74,603.61	17.76%	108,377.11	25.84%	44,895.69	12.41%	20,911.48	6.15%
	152.78	0.04%	1,966.09	0.47%	326.23	0.09%	4,262.00	1.25%
	74,450.83	17.72%	106,411.02	25.38%	44,569.45	12.32%	16,649.48	4.90%
	34,828.74	8.29%	10,106.14	2.41%	9,761.58	2.70%	16,117.64	4.74%
	3,120.80	0.74%	2,317.74	0.55%	1,587.79	0.44%	1,319.71	0.39%
	61,423.18	14.62%	45,301.36	10.80%	62,356.18	17.24%	67,969.65	19.99%
	1,920.88	0.46%	542.18	0.13%	1,231.62	0.34%	3,395.68	1.00%
	325,186.12	**77.42%**	**326,811.84**	**77.93%**	**286,121.65**	**79.12%**	**278,599.32**	**81.94%**
	220.99	0.05%	220.99	0.05%	220.99	0.06%	220.99	0.06%
	2,823.71	0.67%	2,039.94	0.49%	-	-	-	-
	43,275.79	10.30%	44,339.73	10.57%	42,606.91	11.78%	35,346.66	10.40%
	24,252.96	5.77%	21,562.95	5.14%	7,913.28	2.19%	7,351.08	2.16%
	20,170.93	4.80%	20,349.99	4.85%	20,969.24	5.80%	15,415.81	4.53%
	46.44	0.01%	42.09	0.01%	52.62	0.01%		
	1,870.93	0.45%	1,775.53	0.42%	1,493.91	0.41%	1,527.65	0.45%
	2,207.75	0.53%	2,208.91	0.53%	2,270.87	0.63%	1,537.76	0.45%
	94,869.49	**22.58%**	**92,540.13**	**22.07%**	**75,527.81**	**20.88%**	**61,399.95**	**18.06%**
	420,055.61	**100.00%**	**419,351.97**	**100.00%**	**361,649.46**	**100.00%**	**339,999.27**	**100.00%**

2016 12 31 2017 12 31 2018 12 31 2019 3 31 339,999.27 361,649.46 419,351.97 420,055.61

80%

20%

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1

2016 12 31 2017 12 31 2018 12 31 2019 3 31 278,599.32 286,121.65 326,811.84 325,186.12 81.94% 79.12% 77.93% 77.42%

2016 2017 2018 2019 3 168,885.16 166,288.79 160,167.32 149,288.91 49.67% 45.98% 38.19% 35.54%

2016 2017 2018 2019 3 16,649.48 44,569.45 106,411.02 74,450.83 4.90% 12.32% 25.38% 17.72% 2018

2016 2017 2018 2019 3 67,969.65 62,356.18 45,301.36 61,423.18 19.99% 17.24% 10.80% 14.62%% 2018 2017 17,054.82 27.35% 2018

2

2016 12 31 2017 12 31 2018 12 31 2019 3 31 61,399.95 75,527.81 92,540.13 94,869.49 18.06% 20.88% 22.07% 22.58% 2017

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2016 2017 2018 2019 3

35,346.66 42,606.91 44,339.73 43,275.79

10.40% 11.78% 10.57% 10.30%

2016 2017 2018 2019 3

7,351.08 7,913.28 21,562.95 24,252.96

2.16% 2.19% 5.14% 5.77%

2016 2017 2018 2019 3

15,415.81 20,969.24 20,349.99 20,170.93

4.53% 5.80% 4.85% 4.80%

2

	2019.3.31		**2018.12.31**		**2017.12.31**		**2016.12.31**	
	88,000.00	42.85%	88,000.00	42.82%	4,000.00	2.69%	4,000.00	2.48%
	68,033.63	33.13%	79,087.89	38.49%	69,701.45	46.88%	50,897.85	31.60%
	367.28	0.18%	367.28	0.18%	3,163.44	2.13%	5,300.00	3.29%
	67,666.35	33.88%	78,720.62	38.31%	66,538.01	44.75%	45,597.85	28.31%
	39,295.24	19.13%	24,179.78	11.77%	56,925.30	38.28%	89,687.40	55.68%
	624.12	0.30%	3,268.72	1.59%	3,538.66	2.38%	-	-
	979.33	0.48%	2,483.10	1.21%	2,218.64	1.49%	3,490.88	2.17%
	2,772.03	1.35%	2,805.11	1.37%	2,340.80	1.57%	1,403.08	0.87%
	-	-	-	-	4,000.00	2.69%		

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	2019.3.31		2018.12.31		2017.12.31		2016.12.31	
	199,704.34	**97.24%**	**199,824.61**	**97.24%**	**142,724.86**	**95.99%**	**149,479.22**	**92.81%**
	-	-	-	-			4,000.00	2.48%
	-	-	-	-	234.73	0.16%	1,998.44	1.24%
	5,662.74	2.76%	5,676.95	2.76%	5,733.79	3.86%	5,586.35	3.47%
	5,662.74	2.76%	**5,676.95**	**2.76%**	**5,968.52**	**4.01%**	**11,584.79**	**7.19%**
	205,367.08	**100.00%**	**205,501.56**	**100.00%**	**148,693.38**	**100.00%**	**161,064.01**	**100.00%**

2016 2017 2018 2019 3

161,064.01 148,693.38 205,501.56 205,367.08 2018

2017 56,808.18

92.81% 95.99% 97.24% 97.24%

2016

2017 2018 2019 3 149,479.22

142,724.86 199,824.61 199,704.34

45,597.85 66,538.01 78,720.62 67,666.35

2016 2017 2018 2019 3

11,584.79 5,968.52 5,676.95 5,662.74

2016 2017 2018 2019

3 5,586.35 5,733.79 5,676.95

5,662.74

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	2019.3.31/ 2019 1-3	2018.12.31/ 2018	2017.12.31/ 2017	2016.12.31/ 2016
	1.63	1.64	2.00	1.86

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	2019.3.31/ 2019 1-3	2018.12.31/ 2018	2017.12.31/ 2017	2016.12.31/ 2016
	1.12	1.34	1.48	1.27
	48.89%	49.00%	41.12%	47.37%
	44.83%	44.62%	36.13%	47.05%
	1.93	78.01	63.81	53.93

2016 12 31 2017 12 31 2018 12 31 2019 3 31 1.86 2.00 1.64 1.63 1.41 1.48 1.34 1.12

2016 12 31 2017 12 31 2018 12 31 2019 3 31 47.37% 41.12% 49.00%% 48.89% 2017

2016 2017 2018 2019 1-3 53.93 63.81 78.01 1.93 2016-2018 2019 1-3

2018 2017

-50,276.50 -13,427.15

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	2019 1-3	2018	2017	2016
	0.36	3.51	8.19	12.12
	0.50	3.85	3.06	2.41
	0.08	0.68	0.71	0.66

2019 1-3

2016 2017 2018 12.12 8.19 3.51

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2016 2017 2018 2.41 3.06 3.85

2016

15,502.60 21,025.01 22,355.06 664.86

7.91%

8.39% 8.43% 2.03% 2019 1-3

81,893.12

1		44,118.51	44,118.51
2		17,274.61	17,274.61
3		20,500.00	20,500.00
			81,893.12

3

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1

30%

2

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3

4

80%

40%

20%

20%

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50% 3,000

30%

5

6

7

1

2016 2017 5

462,700,000 10 0.403

10 0.5 41,799,666.89 23,135,000

18,664,666.89

2017 2018 5 5

485,835,000 10 0.25

10 1 60,729,375 48,583,500

12,145,875

2018 2019 4 24

874,503,000

10 0.5 10 0.27

67,336,731.00 43,725,150

23,611,581.00

2

	2018	**2017**	**2016**
	22,355.06	19,300.58	15,502.60
	2,361.16	1,214.59	

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2019 4 24

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