

VAR_EQ1

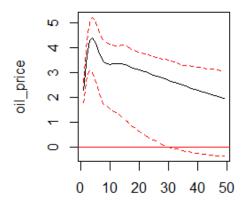
● VAR_EQI		
Residuals: Min 1Q Median 3Q Max -9.8100 -0.7403 0.2423 1.0657 5.4612	Residuals: Min 1Q Median 3Q Max -6.2093 -0.4831 0.0266 0.5923 2.9604	Residuals: Min 1Q Median 3Q Max -14.2241 -0.4376 0.0817 0.5447 2.9386
Coefficients: Estimate Std. Error t value Pr(> t) (Intercept) 0.25208 0.39808 0.633 0.5272 L(delta_prod, 1:2)1 -0.11791 0.06496 -1.815 0.0708 . L(delta_prod, 1:2)2 -0.08307 0.06500 -1.278 0.2025 L(index_act, 1:2)1 0.01697 0.01582 1.073 0.2844 L(index_act, 1:2)2 -0.02463 0.01556 -1.583 0.1147 L(oil_price, 1:2)1 0.04892 0.04858 1.007 0.3149 L(oil_price, 1:2)2 -0.05297 0.04863 -1.089 0.2772	Coefficients: Estimate Std. Error t value Pr(> t) (Intercept) 0.162547 0.177711 0.915 0.3613 L(delta_prod, 1:2)1 -0.181983 0.065347 -2.785 0.0058 ** L(delta_prod, 1:2)2 -0.076857 0.065500 -1.173 0.2418 L(index_act, 1:2)1 0.002788 0.004942 0.564 0.5733 L(index_act, 1:2)2 -0.001468 0.004996 -0.294 0.7692 L(oil_price, 1:2)1 0.016157 0.014684 1.100 0.2723 L(oil_price, 1:2)2 -0.018269 0.014394 -1.269 0.2057	Coefficients: Estimate Std. Error t value Pr(> t) (Intercept) -1.800e-01 2.116e-01 -0.851 0.3959 L(delta_prod, 1:2)1 2.754e-02 6.575e-02 0.419 0.6757 L(delta_prod, 1:2)2 -1.344e-01 6.620e-02 -2.030 0.0435 * L(index_act, 1:2)1 1.446e-03 3.970e-03 0.364 0.7161 L(index_act, 1:2)2 -8.241e-06 3.960e-03 -0.002 0.9983 L(oil_price, 1:2)1 2.997e-02 1.413e-02 2.120 0.0351 * L(oil_price, 1:2)2 -2.714e-02 1.414e-02 -1.919 0.0562 .
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' '1	signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' '1	signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 2.069 on 231 degrees of freedom Multiple R-squared: 0.04732, Adjusted R-squared: 0.02257 F-statistic: 1.912 on 6 and 231 DF, p-value: 0.07972	Residual standard error: 0.9863 on 231 degrees of freedom Multiple R-squared: 0.04833, Adjusted R-squared: 0.02362 F-statistic: 1.955 on 6 and 231 DF, p-value: 0.07299	Residual standard error: 1.252 on 231 degrees of freedom Multiple R-squared: 0.05759, Adjusted R-squared: 0.03312 F-statistic: 2.353 on 6 and 231 DF, p-value: 0.03171
• VAR_EQ2		
Residuals: Min 1Q Median 3Q Max -32.044 -5.475 0.121 5.090 27.228	Residuals: Min 1Q Median 3Q Max -65.847 -6.576 -1.266 6.071 58.809	Residuals: Min 1Q Median 3Q Max -71.489 -10.565 -0.286 11.519 57.223
Coefficients:	Coefficients:	Coefficients:
Estimate Std. Error t value Pr(> t) (Intercept) Var(3) -1.39345	Estimate Std. Error t value Pr(> t)	Estimate Std. Error t value Pr(> t) (Intercept) 3.60961 3.41872 1.056 0.292145 L(delta_prod, 1:2)1 -2.49080 1.06232 -2.345 0.019891 * L(delta_prod, 1:2)2 0.31362 1.06961 0.293 0.769622 L(index_act, 1:2)1 1.17070 0.06414 18.252 < 2e-16 *** L(index_act, 1:2)2 -0.22696 0.06399 -3.547 0.000472 *** L(oil_price, 1:2)1 0.78638 0.22837 3.443 0.000682 *** L(oil_price, 1:2)2 -0.82975 0.22851 -3.631 0.000348 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' '1	Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1	Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 8.314 on 231 degrees of freedom Multiple R-squared: 0.9378, Adjusted R-squared: 0.9362 F-statistic: 580.4 on 6 and 231 DF, p-value: < 2.2e-16	Residual standard error: 12.57 on 231 degrees of freedom Multiple R-squared: 0.9576, Adjusted R-squared: 0.9565 F-statistic: 870.3 on 6 and 231 DF, p-value: < 2.2e-16	Residual standard error: 20.23 on 231 degrees of freedom Multiple R-squared: 0.9269, Adjusted R-squared: 0.925 F-statistic: 488.5 on 6 and 231 DF, p-value: < 2.2e-16
• VAR_EQ3		
Residuals: Min 1Q Median 3Q Max -14.0069 -1.2009 0.0638 1.0410 13.3781	Residuals: Min 1Q Median 3Q Max -18.232 -2.029 -0.149 1.941 13.144	Residuals: Min 1Q Median 3Q Max -20.1424 -3.1347 0.0712 3.9264 12.1713
Coefficients:	Coefficients:	Coefficients:
Estimate Std. Error t value Pr(> t) (Intercept)	Estimate Std. Error t value Pr(> t)	Estimate Std. Error t value Pr(> t) (Intercept) 2.207771 0.887770 2.487 0.0136 * L(delta_prod, 1:2)1 -0.446291 0.275862 -1.618 0.1071 L(delta_prod, 1:2)2 0.123165 0.277755 0.443 0.6579 L(index_act, 1:2)1 0.013937 0.016656 0.837 0.4036 L(index_act, 1:2)2 -0.009757 0.016616 -0.587 0.5576 L(oil_price, 1:2)1 1.464112 0.059302 24.689 < 2e-16 *** L(oil_price, 1:2)2 -0.495562 0.059339 -8.351 6.25e-15 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1		1 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 2.364 on 231 degrees of freedom Multiple R-squared: 0.9909, Adjusted R-squared: 0.9906 F-statistic: 4174 on 6 and 231 DF, p-value: < 2.2e-16	Residual standard error: 4.023 on 231 degrees of freedom Multiple R-squared: 0.9758, Adjusted R-squared: 0.9752 F-statistic: 1552 on 6 and 231 DF, p-value: < 2.2e-16	Residual standard error: 5.253 on 231 degrees of freedom Multiple R-squared: 0.9711, Adjusted R-squared: 0.9704 F-statistic: 1295 on 6 and 231 DF, p-value: < 2.2e-16

Covariance matrix of residuals:	Covariance matrix of residuals:	Covariance matrix of residuals:
delta_prod index_act oil_price	delta_prod index_act oil_price	delta_prod index_act oil_price
delta_prod 4.1921 -0.3317 -0.4748	delta_prod 0.9364 0.4122 -0.4107	delta_prod 1.47812 0.07797 -1.184
index_act -0.3317 63.5335 3.0782	index_act	index_act 0.07797 397.22256 14.475
oil_price -0.4748 3.0782 5.5618	oil_price -0.4107 13.9858 16.1193	oil_price -1.18437 14.47482 28.296
Correlation matrix of residuals:	Correlation matrix of residuals:	Correlation matrix of residuals:
delta_prod index_act oil_price	delta_prod index_act oil_price	delta_prod index_act oil_price
delta_prod 1.00000 -0.02032 -0.09832	delta_prod 1.00000 0.03559 -0.1057	delta_prod 1.000000 0.003218 -0.1831
index_act -0.02032 1.00000 0.16375	index_act 0.03559 1.00000 0.2910	index_act
oil_price -0.09832 0.16375 1.00000	oil_price -0.10571 0.29103 1.0000	oil_price -0.183136 0.136532 1.0000

Plot Impulso Resposta

oil_price > oil_price

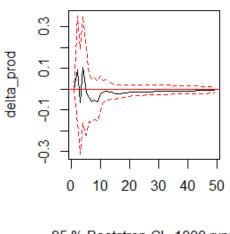
Orthogonal Impulse Response from oil price



95 % Bootstrap CI, 1000 runs

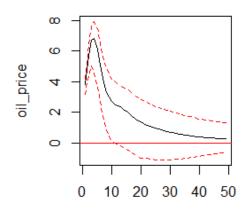
oil_price > delta_prod

Orthogonal Impulse Response from oil_price



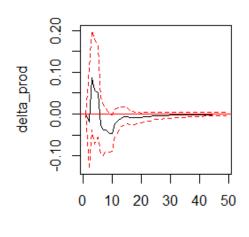
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from oil price



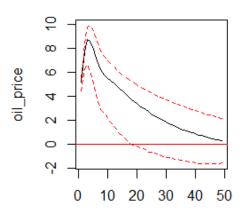
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from oil_price



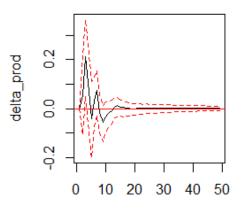
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from oil_price



95 % Bootstrap CI, 1000 runs

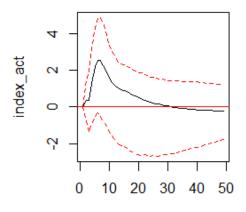
Orthogonal Impulse Response from oil_price



95 % Bootstrap CI, 1000 runs

• oil_price > index_act

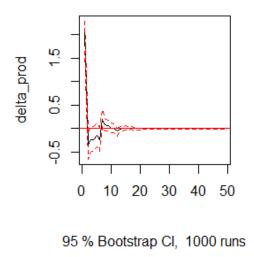
Orthogonal Impulse Response from oil price



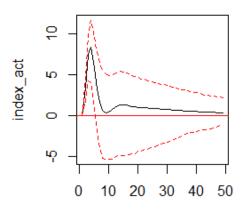
95 % Bootstrap CI, 1000 runs

delta_prod > delta_prod

Orthogonal Impulse Response from delta_prod

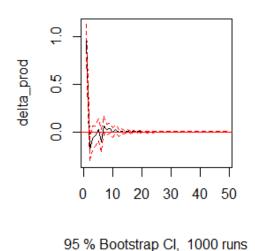


Orthogonal Impulse Response from oil price

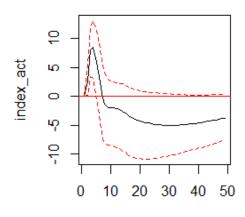


95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from delta_prod

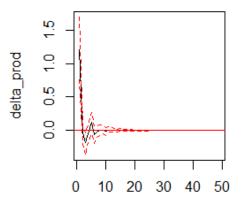


Orthogonal Impulse Response from oil price



95 % Bootstrap CI, 1000 runs

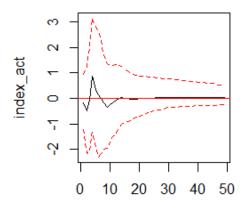
Orthogonal Impulse Response from delta_prod



95 % Bootstrap CI, 1000 runs

• delta_prod > index_act

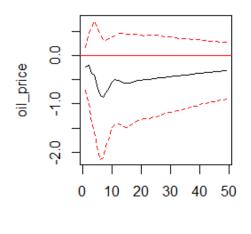
Orthogonal Impulse Response from delta_prod



95 % Bootstrap CI, 1000 runs

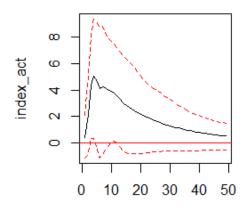
delta_prod > oil_price

Orthogonal Impulse Response from delta_prod



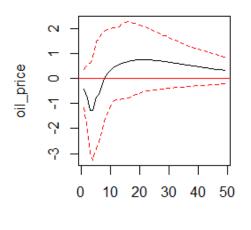
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from delta prod



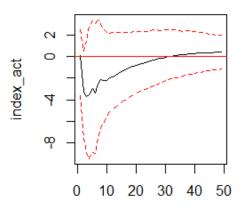
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from delta prod



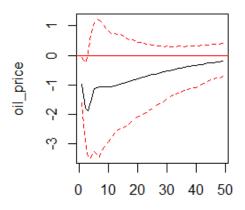
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from delta prod



95 % Bootstrap CI, 1000 runs

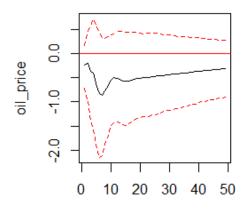
Orthogonal Impulse Response from delta_prod



95 % Bootstrap CI, 1000 runs

index_act > index_act

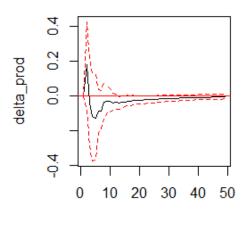
Orthogonal Impulse Response from delta_prod



95 % Bootstrap CI, 1000 runs

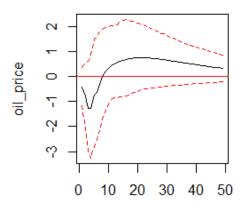
index_act > delta_prod

Orthogonal Impulse Response from index_act



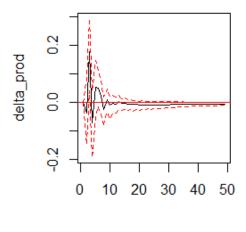
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from delta prod



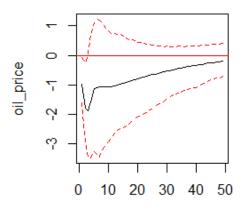
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from index_act



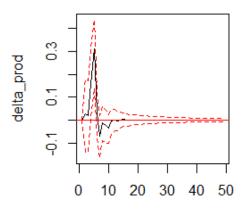
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from delta_prod



95 % Bootstrap CI, 1000 runs

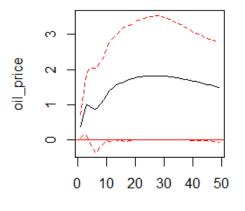
Orthogonal Impulse Response from index_act



95 % Bootstrap CI, 1000 runs

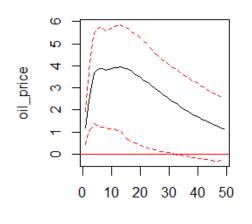
• index_act > oil_price

Orthogonal Impulse Response from index_act



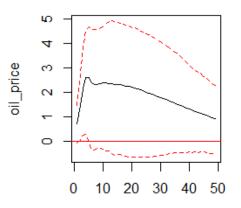
95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from index_act



95 % Bootstrap CI, 1000 runs

Orthogonal Impulse Response from index_act



95 % Bootstrap CI, 1000 runs

The Part	p1_delta_prod			p2_delta_prod			p3_delta_prod		
2 0.99823849313868 0.007227683874287 0.0013322868774823 2 0.998239174480921 0.0013600799505309 0.0003422575897574 1 0.99823918054913104 0.00024817858891286 0.00134717795881 4 0.998238389912750 0.001342469759481 2 0.99823918567616 1 0.998239185676867 1 0.998239185676867 1 0.998239185676867 1 0.9982391856768676 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.99823918567686 1 0.9982391856 1 0	delta_prod	index_act	oil_price	delta_prod	index_act	oil_price	delta_prod	index_act	oil_price
3 0.98850.9914.014149	1 1	. С	0	1 1	. 0	0	1 1	. 0	0
4.0 9.84228895942753 0.010412465579485 0.0052918380676116 4.0 9.511629253794009 0.037760355728555 0.01019702985847410 0.01019702958584741 0.0101971565754 6.0 9.8927689486488987 0.0703876848788894 0.070484648888727985774 0.01019715765754 0.0101971576765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.010197157675754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.0101971576575775754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754 0.01019715765754	2 0.990833849318368	0.00722786387428407	0.00193828680734823	2 0.998291734490521	0.00136600795050309	0.000342257558975714	2 0.997623929682418	0.000553607339891376	0.00182246297769067
5 0.9980589858C44940 0.0138764481211 0.005261499494461 5 0.946121040890210 0.01487516497386 0.07524764983824 0.07524643808227 0.005561375109084 5 0.94612704084021 0.01476564550445 0.005561375109084 6 0.9491204084021 0.014765765555045 0.00561375109084 6 0.94912040864021 0.0147657656555045 0.00561375109084 8 0.9401408661012 0.0148651012104 0.0148651012104 0.0068374578994 8 0.9401408661012 0.0148651012104 0.0148651012104 0.0068374578994 8 0.9401408661012 0.0148651012104 0.0148651012104 0.0148651012104 0.0148610121	3 0.989562914634149	0.00753906591275036	0.00289801945310034	3 0.958860402505321	0.0332193621099833	0.00792023538469612	3 0.9690859063636	0.000748175856812168	3 0.0301659177795881
6 0.999/10/033551157 0.015317/4969379898 0.005561871/306949478 7 0.99760060836451 0.00167565455044661 0.0033637940494878 7 0.9926060836451 0.001675654550464661 0.003363794049487878979 9 0.99860836503570998 0.0024436301542998 0.0024436301542998 0.00244367364329	4 0.984328395942753	0.0104124657504854	0.00525913830676116	4 0.951169253794004	0.0377604526728551	0.0110702935331406	4 0.946733156254334	0.0166982331302194	0.0365686106154471
7 0.94218372657874 0.04255384193130 0.06837465789448 8 0.944118376567744 0.04255384193130 8 0.8806274673942859 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.078635224579633 0.07863522457963 0.07863522457963 0.07863522457963 0.07863522457963 0.078635245747 0.0786354882229514 1.08856693524592 0.078635245745 0.0786354882229514 1.08856693524592 0.078635245745 0.0786354882229514 1.0885669354593 0.078652457459 0.0786354882229514 1.0885669354593 0.078652457459 0.0	5 0.980859858624304	0.0138786418812114	0.00526149949448461	5 0.946130140809049	0.0404213230428789	0.0134485361480719	5 0.892276840988894	0.0726446348088227	0.0350785242022834
8 0.976072505036595 0.0170399883849506 0.006893274657889966 0.00748372465789957 9.075327245093378973 0.0076852224879595797 9.00768522248795975 9.007685224879597 1.0 0.07685224878657742 1.0 0.0768524878657 1.0 0.076852487874957 1.0 0.076852487874957 1.0 0.076852487874957 1.0 0.076852487874957 1.0 0.076852487874957 1.0 0.076852487874957 1.0 0.076852487874957 1.0 0.076852487874957 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.076852487477 1.0 0.07685248747 1.0 0.07685248747 1.0 0.07685248747 1.0 0.07685248747 1.0 0.07685248747 1.0 0.07685248747 1.0 0.076852487474	6 0.979120633551157	0.0153174949379386	0.00556187151090498	6 0.943702048540212	0.0422871798971131	0.0140107715626754	6 0.89144019820384	0.0729883664894364	0.0355714353067237
9 9.975093327488713 0.0172214500533282 0.00768522245795937 9 9.938365035209908 0.042943605145293 0.01868566355533 9 9.884046739428754 0.075231257615345 0.0448013480971128	7 0.976906660384612	0.0167565455604445	0.00633679405494378	7 0.942185726057874	0.0425538412913106	0.0152604326508158	7 0.886204089782586	0.0753070555134506	0.0384888547039632
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11 0.974366637522322 0.0775987563252312 0.0766348882295014 12 0.93573108665476 0.0428086510192746 0.0211477225210965 12 0.882663936181763 0.076132082852702 0.0413908909655333 13 0.973613753979337 0.0184631400857371 0.07932105953548971 13 0.9395638267274884 0.0429057424543871 0.021599774010821 14 0.88274618870992 0.076131062926497 0.041392822052129 0.080972657168376 15 0.93288638369939 0.00190974995160810 0.080972657168376 15 0.93585888310575 0.0429097424543871 0.0215907741010821 14 0.88274618870992 0.076131062926497 0.0414932822052129 0.080972657168376 15 0.9328894344031 0.0429057424543871 0.0215907741010821 14 0.88274618870992 0.076131062926497 0.0414932822052129 0.080972657168376 15 0.93585888310555 0.04239285960313004 0.0215907741010821 14 0.88274618870992 0.076131062926497 0.0414932822052129 0.080972657168416157 0.014943798878389 0.088264935910478 15 0.93585888310585 0.0423928596013004 0.021593936165116 16 0.88244993882827 0.076132068787467 0.0414931291947218 18 0.97264818116612 0.09602204434335 0.008826493054517 0.042990944490104 0.0218291140045727 19 0.0882465075674624 0.076132088111805 0.04143188999139 19 0.971497556728827 0.00197573070024599 0.00839381445612 0.093857485154517 0.04299044409104 0.0218291140045727 0.08424596112121 0.0934955206038 0.043093551627165 0.014948573731130 0.076132549999931 0.0085938144364331 0.09385789350497 0.0414321493933 0.041432149785033 0.00859381443643 0.08698885878390 0.08593814436451 0.041432149359107 0.041432149389937 0.0085938144436431 0.08424594894411 0.04143145493540 0.041432149389937 0.041432149389937 0.008593814443641 0.0414321493593 0.0085938144364499 0.08894878949440011 0.0882431444949106572 0.088244498106371 0.076132958632939 0.086393837489141 0.0414321493593 0.020648787579399 25 0.970244495712472 0.00944749418443641 0.08824939144 0.0414324594949406101 0.088243144949164 0.02144444488979 0.00844444489494 0.0882449491449491494 0.088244991449494 0.088244991449494 0.088244991449494 0.08824499494494 0.08824499494494 0.088244994949494 0.0882449949494 0.088244994949494	9 0.975093327488713	0.0172214500533282	0.00768522245795937	9 0.938365035209908	0.0429463061545293	0.0186886586355633	9 0.884046739428754	0.0755231257615345	0.0404301348097118
12 0.97403965988101 0.0180756625321122 0.007827310936598971 13 0.935638262724884 0.04290877496511 0.0214559877057979 13 0.882539934120128 0.076137067318655 0.076137067318655 0.076137057318655 0.0761370573185 0.0761370573185 0.076137	10 0.974739764563946	0.0174487766492676	0.00781145878678657	10 0.936439657354935	0.0429313746714434	0.0206289679736217	10 0.882853614176255	0.0761466825147689	0.0409997033089758
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14 0.97248283446275 0.18779414028555 0.0797230162516947 14 0.935589883446531 0.04290274254387] 0.015907741010821 14 0.882447918870992 0.0761325483949915 0.041393282498116 0.075723010580416157 0.019437888783898 0.08037056985910478 16 0.9354839045372188 0.0429225600113004 0.015943936165116 16 0.882449738058287 0.07613205687468 0.0414318221947218 0.0429225600113004 0.015943936165116 16 0.88244973805287 0.07613205687468 0.0414318221947218 0.0414318291947218 0.04143182936473 0.04143182836473	12 0.97403965988101	0.0180765682532122	0.00788377186577742	12 0.935731008665476	0.0429008777496511	0.0213681135848728	12 0.882566936181763	0.076132082852702	0.0413009809655353
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16 0.972580101691008 0.01924928449888 0.00827056985910478 16 0.935483046372188 0.0429225600113004 0.0215943936165116 16 0.88243973902051 0.076132068784768 0.0414281921947218 0.076132058871850 0.00826053270543935 17 0.935396899518635 0.0429679562985801 0.021753685109752 0.021753685109752 0.0761320588511850 0.0683461466102 0.935171851594517 0.0429679562985801 0.021753685109752 0.088243507703165 0.0761320588511850 0.088459611212212 0.0935171851594517 0.0429990344009104 0.021895140045727 19 0.882435573674624 0.0761321694929134 0.0761321694929134 0.0761321694929134 0.0761321694929134 0.0761321694929134 0.0761321694929134 0.0761321694929134 0.0761321694929134 0.0761321694929134 0.076132169429134 0.076132169429134 0.076132169429134 0.0761321694299134 0.076132169429134 0.076132169429134 0.076132169429134 0.076132169429134 0.0761323685148613 0.093476560666386 0.0430785756612046 0.021944867372406 0.021944867372406 0.0761324899909381 0.0761324899909381 0.076132489990381 0.076132499909381 0.0761324959909381 0	14 0.973248284346275	0.0187794140285552	0.00797230162516947	14 0.935589483444531	0.0429097424543871	0.0215007741010821	14 0.882474618870992	0.0761310529264957	0.0413943282025122
17 0.97230156841657 0.0194378988783898 0.00826053270545395 17 0.935396899518635 0.04295928899861473 0.0216702105132175 17 0.82436071200625 0.0761320388111805 0.0414318899861943 19 0.935178851954571 0.042990344009140 0.0128291140045777 19 0.882435673670462 0.0761322132718185 0.04143210369962621 0.097165526353051 0.01995737070345978 0.0084359611421212 20 0.93506493240060 0.0430395531627185 0.021895514256673 0.02184787556124875 0.021879556124875 0.0200262492558789 0.00844999611421212 20 0.935064932540060 0.0430395531627185 0.021873734096 0.021873374096 0.0761325499999381 0.041432143059017 0.02187374565060386 0.0219448573713 0.0218737496757 0.034374596506386 0.0219448573713 0.0218478573713 0.020241426504241 0.00858357989204827 2.0.93489522821814 0.041323293044745 0.0218478573713 0.02034143183074575 0.0218478573713 0.02034143183749675 0.076132549999381 0.04143229348937 0.04143229348937 0.04143229348937 0.0414322933044745 0.0218478573713 0.02034143183546 0.076133376939695 0.041432363493997 0.04143236934937 0.02034278566033 0.020342785660638 0.020342785660434 0.0200347855661036 0.02034785660434 0.0203478566044 0.020347	15 0.972889638367993	0.0190376939151691	0.00807266771683767	15 0.935558583102572	0.042908593230237	0.0215328236671907	15 0.882448093858287	0.0761325438949941	0.0414193622467194
18 0.972064183166142	16 0.972580101691008	0.019249328449888	0.00817056985910478	16 0.935483046372188	0.0429225600113004	0.0215943936165116	16 0.88243973902051	0.076132068784768	0.0414281921947218
19 0.971847207830742 0.197537070245978 0.00839548514466102 19 0.935171851594517 0.0429990344009104 0.0218291140045727 19 0.882435673674624 0.0761321694291136 0.0414321586966261 0.09716552635905551 0.01898740357327 0.00844599611212212 0.093469566106386 0.043078575612046 0.0218955142956781 0.0284343981063714 0.07613254999939870 0.041432183157067 0.0761325499993873 0.093132587033359 0.00853981341436413 0.0934976560606386 0.043078575612046 0.0219814785737113 0.0204124459714 0.07613258636323997 0.0414321831470674 0.09340946051525025917 0.09346246645455717 0.043164786964641 0.0220087475797389 0.0284233718383644 0.0761329836323997 0.0414322974899437 0.09340246645455717 0.043164786964641 0.0220087475797389 0.0284234371838544 0.0761337858434 0.0431329344459 0.020412418878765 0.0761337858434 0.044323934940451 0.093408246596599 0.093467264596549 0.0204823784994937 0.020412418878765 0.0086633438488127 0.086633438488127 0.093467161053983 0.0444345966292 0.04325278419973 0.02045264595499 0.02045264596549 0.02045264595499 0.02045264595499 0.02045264595499 0.02045264595499 0.02045264595499 0.02045264595499 0.02045264595499 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549 0.02045264596549	17 0.972301568416157	0.0194378988783898	0.00826053270545395	17 0.935396899518635	0.0429328899681473	0.0216702105132175	17 0.882436071202625	0.0761320388111805	0.0414318899861945
20 0.971655263530551 0.019898740357327 0.00844599611212212 20 0.935064932540603 0.0430395531627185 0.0218955142966781 20 0.88243530770316 0.0761325499909381 0.041432143059017 21 0.9714795561242827 0.002062492558783 0.00249414961929453 21 0.9348952828121814 0.043123293204445 0.021948637324096 21 0.882434981065714 0.0761328356186786 0.0414321833176076 22 0.971321250578823 0.0201395287033359 0.00859815341436413 22 0.934895282812181 0.043123293204445 0.0219814785737113 22 0.88243418876576 0.0613237585643 0.04143224899437 23 0.97115173603711 0.02241246504241 0.00858357889204827 23 0.934826465455717 0.0431647869645441 0.02200874575797389 23 0.8824341876756 0.06133173585443 0.041432549946051 0.0414322549946051 0.0414345549946051 0.0414345549946051 0.0414345549946051 0.0414345549946051 0.0414345549946051 0.0414345549946051 0.0414345549946051 0.0414345549946051 0.04143455494694 0.0414345549946051 0.04143455494694 0.04143455494694 0.0414345549946051 0.0414345549946051 0.04143455494694 0.0414345549946051 0.04143455494694 0.04144545494694 0.04144545494694 0.0414454549494 0.0414454549	18 0.972064183166142	0.019602204343535	0.00833361249032355	18 0.935278388510645	0.0429679262985801	0.0217536851907752	18 0.882435813662078	0.076132112718185	0.0414320736197373
21 0.971479556124827 0.0200262492558789 0.00849419461929453 21 0.93497650606368 0.0430785756612046 0.0219448637324096 21 0.882434981063714 0.0761328356186786 0.0414321833176076 22 0.97143206578823 0.0201395287033359 0.00858357899240827 23 0.934826646555717 0.04316478696654411 0.022008745797389 23 0.882434276468152 0.0761331758543 0.0414325499464051 0.020184875797389 23 0.882434276468152 0.0761331758543 0.0414325499464051 0.02018478797389 23 0.882434276468152 0.0761331758543 0.0414325499464051 0.02018478797389 23 0.882434276468152 0.0761331758543 0.0414325499464051 0.02018478797389 23 0.882434276468152 0.0761331758543 0.0414325499464051 0.02018478797389 25 0.882433276436859 0.07613335636392926 0.0414325493946929 0.04143254939464051 0.0201847879739 0.02004142412878765 0.076133564874895 0.008669858878304219 26 0.9346244566922 0.0432952784199723 0.0220622758837353 0.0882433261436859 0.076133564874895 0.041433562370349 0.00876131564874895 0.0087613564874895 0.0087613564874895 0.00876131564874895 0.00876131564874895 0.00876131564874895 0.00876131564874895 0.00876131564874895 0.00876131564874895 0.00876131564874895 0.00876131564874895 0.00884388731991144 0.0984538807915 0.00884388731991144 0.0984538807915 0.044345175699466 0.022104286994581 0.088431537034199 0.076133765591192 0.041433471519942 0.09945781054049 0.0200816435748093372 0.0200977008356803 0.00884384731991144 0.09845788020525 0.0088897952065138 0.0934343418199754 0.0435637639252286 0.022113031744181 0.0221221062572654 0.0284304974963250 0.00888987952065138 0.0934043413497159925 0.04369333386826 0.022113664704950 0.0221042869945 0.022113031744181 0.0221221062572654 0.0284304970663220 0.0088487219750515 0.00898071318966 0.04363678920724 0.02211306470450 0.02212712398646 0.02211300470499 0.076133770728145 0.04434504970909 0.044343504970909 0.044343504970909 0.044343504970909 0.044343504970909 0.02210475649980 0.022104286994581 0.022121062575654 0.022121062575654 0.022121062575654 0.022121062575654 0.022121062575654 0.022121062575654 0.02212106257564 0.02212106	19 0.971847207830742	0.0197573070245978	0.00839548514466102	19 0.935171851594517	0.0429990344009104	0.0218291140045727	19 0.882435673674624	0.0761321694291136	0.0414321568962621
22 0.9713206578823 0.0201395287033359 0.00853981341436413 22 0.93489522821814 0.0431232932044745 0.0219814785737113 22 0.882434718877657 0.0761329836323997 0.0414322974899437	20 0.971655263530551	0.019898740357327	0.00844599611212212	20 0.935064932540603	0.0430395531627185	0.0218955142966781	20 0.88243530770316	0.0761325499909381	0.0414321423059017
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24 0.971043278506333 0.0203320181217058 0.0086247033719619 24 0.934761015035933 0.0432086894586241 0.022032955054427 24 0.882433715833644 0.0761333610929262 0.0414329230734299 25 0.970922414877243 0.0204142412878762 0.00866334383488127 25 0.934700960883347 0.0432515126571031 0.0220475264595499 25 0.882433261436659 0.07613335649748959 0.0414332634030982 26 0.970611362172327 0.0205567221161334 0.008783840219 27 0.934587118426907 0.043337798344563 0.0220750832285286 27 0.882432498019693 0.0761333694798959 0.0414335634233049 27 0.970711382172327 0.0205567221161334 0.00873189571154011 27 0.934587118426907 0.043337798344563 0.0220750832285286 27 0.882432498019693 0.0761333688946716 0.0414335637330929 0.970534639963928 0.020673847018355 0.00879151301771741 29 0.93448255424997 0.0434214706439659 0.0220853006937223 28 0.882431256210118 0.076133688946716 0.0414341548952105 0.970386144323286 0.020774083568039143 0.00881850979259794 30 0.93448275342097 0.043461746978066 0.0221042869945811 30 0.88243157034193 0.076133377034193 0.07613337703490 0.0414347151994258 30 0.970320811419864 0.0208495738020525 0.00888979520651384 33 0.934346071318086 0.043567392522862 0.0221113031744181 31 0.882431243300689 0.076133765791192 0.04143491101915 32 0.970320811419864 0.0208495738020525 0.00888979520651384 33 0.934306243197574 0.04356716505451611 0.0221121062572654 33 0.8824300765632239 0.07613378510891 0.0414355511261949 34 0.970205125525917 0.0208842211871555 0.008910532869275 34 0.9342020868063 0.04366078920724 0.02211297123986462 35 0.882430023361149 0.07613378348799 0.0414355511261949 34 0.97006248074929 0.02091396327125 0.0089867213895198 38 0.93411740616155 0.043743751767555 0.022133749469131 30 0.8824299919959794 0.076133737970937 0.04143570620977 0.0599934883083340 0.0210882414063322 0.0091262776026559 40 0.934902654466116 0.04376559208649 0.0221408063252411 40 0.88242929195005 0.076133737970937 0.0414367020707094000000000000000000000000000000	22 0.9713206578823	0.0201395287033359	0.00853981341436413	22 0.934895228221814	0.0431232932044745	0.0219814785737113	22 0.882434718877657	0.0761329836323997	0.0414322974899437
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28 0.970619166913397 0.020618155223988 0.00876267786261529 28 0.934533380319421 0.0433803189868569 0.0220863006937223 28 0.882432156210118 0.0761336888946716 0.041434548952105 0.0970534639963928 0.020770083568032 0.00879151301771741 29 0.93448255424997 0.0434214706439659 0.0220959751060637 29 0.882431841997513 0.0761337223386018 0.04143435638852 0.0970457231054526 0.020770083568032 0.00881850979259794 30 0.934431438307612 0.0434615746978066 0.0221042869945811 30 0.882431537034193 0.0761337477663809 0.0414347151994258 0.0970320811419864 0.0208116237699444 0.00886756481019209 32 0.934346071318086 0.0435367392522862 0.0221171894296273 32 0.882430966792051 0.0761337767491039 0.0414352564588447 0.0970205125525917 0.0208845211871555 0.00889695325 0.0343406243197574 0.0435716505451611 0.022121062572654 33 0.882430075632239 0.0761337831058118 0.041435591161949 0.0970205125525917 0.0208845211871555 0.00891065328692735 34 0.934268964678135 0.0436048008767453 0.022122162572654 33 0.88243005632239 0.0761337831058118 0.04143559316993 0.0970153840093372 0.0209158958197327 0.00894872291750515 36 0.934201735416189 0.043665990281965 0.0221297123986462 35 0.8824300014709 0.076133778347299 0.0414359316093 39 0.934171479893529 0.0436655990281965 0.0221326655556147 36 0.8824300014709 0.076133778347299 0.041436390716940 0.09448691172912 0.0089825313895198 38 0.934143274096646 0.03719376434221 0.0221373494691321 38 0.88242999959746 0.0761337707281425 0.041436694009243 39 0.96998395809512 0.021080287152743 0.008980313896063 39 0.934117040616155 0.0437655392086429 0.0221408063252411 40 0.882429219156005 0.0761337737909937 0.041436504200977 40 0.969948830833403 0.0210385414063322 0.0091262776026559 40 0.934092654466116 0.0437665392086429 0.0221408063252411 40 0.882429219156005 0.0761337737709937 0.041436694009243 40 0.096994883033340 0.0210385414063322 0.0091262776026559 40 0.934092654466116 0.0437665392086429 0.0221408063252411 40 0.882429219156005 0.0761337737709937 0.041436694009243 40 0.096994883033340 0.0210385414063322 0.009126277	26 0.970812253058494	0.0204888881584643	0.00869885878304219	26 0.934642445696292	0.0432952784199723	0.0220622758837353	26 0.882432871892799	0.0761335648748959	0.0414335632323049
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33 0.970260630991434 0.0208495738020525 0.00888979520651384 33 0.934306243197574 0.0435716505451611 0.0221221062572654 33 0.882430705632239 0.0761337831058118 0.041435511261949 34 0.970205125525917 0.0208842211871555 0.00891065328692735 34 0.934268964678135 0.0436048008767453 0.0221221062572654 34 0.882430457740685 0.0761337852868951 0.0414357569724193 35 0.970153840093372 0.0209158958197327 0.00893026408689593 35 0.93423420868063 0.043636078920724 0.0221297123986462 35 0.882430223361419 0.076133783477596 0.0414359931609853 36 0.970106407965204 0.0209448691172912 0.00894872291750515 36 0.934201735416189 0.0436655990281965 0.0221326655556147 36 0.8824300014709 0.076133783847298 0.0414362201443704 37 0.970062480742972 0.0209713963270125 0.00896612293001609 37 0.934171479893529 0.0436933333868262 0.0221351867196446 37 0.882429790495357 0.0761337707281425 0.0414364387765002 38 0.970021757781759 0.0209957108287221 0.0089825313895198 38 0.934143274096646 0.0437193764342221 0.0221373494691321 38 0.882429589919479 0.0761337499801562 0.0414368504200977 40 0.969948830833403 0.0210385414063322 0.00901262776026559 40 0.934092654466116 0.0437665392086429 0.0221408063252411 40 0.882429219156005 0.0761337379709937 0.0414370428730006	31 0.970386144323286	0.0207700083568032	0.00884384731991144	31 0.934388773219657	0.0434999236059247	0.0221113031744181	31 0.882431243300689	0.0761337655791192	0.0414349911201915
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37 0.970062480742972 0.0209713963270125 0.00896612293001609 37 0.934171479893529 0.0436933333868262 0.0221351867196446 37 0.882429790495357 0.0761337707281425 0.0414364387765002 38 0.970021757781759 0.0209957108287221 0.0089825313895198 38 0.934143274096646 0.0437193764342221 0.0221373494691321 38 0.882429589919479 0.0761337610712781 0.041436649009243 39 0.96998395809512 0.0210180287152743 0.00899801318960663 39 0.934117040616155 0.0437437517673557 0.0221392076164894 39 0.88242939959746 0.0761337499801562 0.0414368504200977 0.0969948830833403 0.0210385414063322 0.00901262776026559 40 0.934092654466116 0.0437665392086429 0.0221408063252411 40 0.882429219156005 0.0761337379709937 0.0414370428730006	35 0.970153840093372	0.0209158958197327	0.00893026408689593	35 0.93423420868063	0.043636078920724	0.0221297123986462	35 0.882430223361419	0.076133783477596	0.0414359931609853
38 0.970021757781759 0.0209957108287221 0.0089825313895198 38 0.934143274096646 0.0437193764342221 0.0221373494691321 38 0.882429589919479 0.0761337610712781 0.041436649009243 39 0.96998395809512 0.0210180287152743 0.00899801318960663 39 0.934117040616155 0.0437437517673557 0.0221392076164894 39 0.882429399599746 0.0761337499801562 0.0414368504200977 40 0.969948830833403 0.0210385414063322 0.00901262776026559 40 0.934092654466116 0.0437665392086429 0.0221408063252411 40 0.882429219156005 0.0761337379709937 0.0414370428730006	36 0.970106407965204	0.0209448691172912	0.00894872291750515	36 0.934201735416189	0.0436655990281965	0.0221326655556147	36 0.8824300014709	0.0761337783847298	0.0414362201443704
39 0.96998395809512 0.0210180287152743 0.00899801318960663 39 0.934117040616155 0.0437437517673557 0.0221392076164894 39 0.882429399599746 0.0761337499801562 0.0414368504200977 40 0.969948830833403 0.0210385414063322 0.00901262776026559 40 0.934092654466116 0.0437665392086429 0.0221408063252411 40 0.882429219156005 0.0761337379709937 0.0414370428730006	37 0.970062480742972	0.0209713963270125	0.00896612293001609	37 0.934171479893529	0.0436933333868262	0.0221351867196446	37 0.882429790495357	0.0761337707281425	0.0414364387765002
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46 0.969782748098645 0.0211321141823256 0.00908513771902947 46 0.933979758686879 0.0438735597640997 0.022146681549021 46 0.88242832530301 0.0761336646669735 0.0414380100300163									
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48 0.969740603113017 0.0211548106606725 0.00910458622631045 48 0.933952567968565 0.0438996834235383 0.0221477486078973 48 0.882428090375246 0.076133644369174 0.0414382652555794									

p1_index_act			p2_index_act				p3_index_act		
delta_prod	index_act	oil_price	delta_prod	index_act	oil_price		delta_prod	index_act	oil_price
1 0.000412985715500109	0.9995870142845	0	1 0.00126669356814656	0.998733306431853		0	1 1035348818	0.99998964651182	0
2 0.00159984099618016	0.997594740724014	0.000805418279805536	2 0.0103778653415808	0.965811641924658	0.0238104927337608		2 0.0100218921446044	0.982756365533815	0.00722174232158085
3 0.00105266037726768	0.997875016197568	0.00107232342516381	3 0.0280457463540053	0.891928818383713	0.080025435262282		3 0.0152922340388912	0.938653331287024	0.046054434674085
4 0.00311378516541634	0.991132330044184	0.00575388479039925	4 0.0402698565773187	0.846933094319251	0.11279704910343		4 0.0169295721844186	0.915511607012345	0.0675588208032369
5 0.00287366750557988	0.98071145047449	0.01641488201993	5 0.045963112461467	0.842105585992862	0.111931301545671		5 0.0177728590347875	0.91172026784862	0.0705068731165928
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31 0.00171060387146615	0.952210434849816	0.046078961278718	31 0.0714593525149673	0.873533554457428	0.0550070930276049		31 0.0189498494127208	0.874197899983852	0.106852250603427
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delta_prod	index_act	oil_price	delta_prod	index_act	oil_price	delta_prod	index_act	oil_price
1 0.00966687590155177	0.0261754126102936	0.964157711488155	1 0.0111746076995278	0.0870127597968473	0.901812632503625	1 0.0335387340992037	0.0188025152841854	0.947658750616611
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43 0.0205848495779805	0.204616635500609	0.77479851492141	43 0.0252923673004111	0.557630982949508	0.417076649750081	43 0.0331921010460456	0.175943618030725	0.790864280923229
44 0.0205232911485767	0.206620113332126	0.772856595519298	44 0.025437120475384	0.558683660178251	0.415879219346365	44 0.0332081699227667	0.176999275108528	0.789792554968705
45 0.0204642529943858	0.208537319898889	0.770998427106726	45 0.0255704725206042	0.559645464937383	0.414784062542013	45 0.033222031452838	0.177982774459483	0.788795194087679
46 0.0204076362935116	0.210372123916945	0.769220239789544	46 0.0256932530137707	0.56052432692957	0.413782420056659	46 0.0332338554233663	0.178897397580478	0.787868746996155
47 0.0203533448094589	0.212128225213136	0.767518429977406	47 0.0258062430671248	0.561327468534316	0.412866288398559	47 0.0332438057040076	0.179746418229843	0.787009776066149
48 0.0203012853531475	0.213809159009261	0.765889555637592	48 0.0259101751201597	0.562061470362913	0.412028354516927	48 0.0332520397487818	0.180533087625489	0.786214872625729