TODO List

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1 First Main Direction When Start Up

1.1 Cases List

Table 1: The First Man Dir

Name	dir	Right	KeyPos
a9	-1	reverse	2099200, 2099280, 2099430
ag	-1	reverse	2099200, 2099360, 2099390
al	1	flat to line to curve	2140672, 2099200, 2127038, 2140672
au	-1	reverse	2099200, 2099520,
bu	1	OK to reverse	2099200
c9	-1	flat to curve	2099200, 2103120, 2103238
CF	1	GOOD (!) L9 would stopped all level before 9	2099200
cu	1	reverse (!) L10 would reverse all level	2099200, 2099353, 2099456, 2101242(!), 2101353(!), 2114869
FG	1	OK	2099200
i9(!)	1	OK but reverse	2099200
j9	-1	OK but reverse	2099200, 2100448
jm	-1	reverse!	2099200
l9	1	GOOD but reverse	2099200
m9	1	!REVERSE!	2099200
MA	1	!REVERSE!	2099200
ni	-1	GOOD but reverse	2099200
OI	-1	Reverse	2099200
p9	-1	flat to curve, reverse	2021104, 2106180, 6992004
rb	1	!REVERSE!	2099200
RM	1	!REVERSE!	2099200
SR	1	!reverse!	2099200
TA	1	!reverse!	2099200
v9	-1	reverse	2099200
y9	1	reverse	2099200
zn	-1	OK but reverse	2099200

1.2 Test Cases

If we save all instruments at start position(2099200) of D3 (20180126), we got several situations of reverse:

1. It will reverse very soon.

   (a) P_9 is curve

      i. **a9**: P_9 2101335 goes to up, P_8 2102958 changed to convex. At 2113313, $P_7 : 77$, $P_8 : 33$, $P_9 : 22$, $P_{10} : 25$

      ii. **cu**: 2099368 reached maximum, 2099457 P_0 was changed.

      iii. **j9**: 2099200 $P_8 : 55$, $P_9 : 55$, and pay attention to $P_{10} : 33$ please.

      iv. **jm**: $P_8 : 11$, $P_9 : 55$, $P_{10} : 33$

      v. **TA**: VIP: 2099200, almost is up-convex. 2102196: reached all maximum. 2102253: P_0 was changed direction.

      vi. **v9**: 200920 0:77 1:44 2:44 3:44 4:77 5:55 6:55 **7:33** 8:77 9:55 10:66 **11:22**

      vii. **j9** 2100444 reached almost all maximum.

   (b) P_9 is linear

      i. **al**:2102035 $P_9 : 13$, 2114141 $P_9 : 33$, 2124972 $P_8 : 11$, $P_9 : 33$, $P_{10} : 77$, 2125948 $P_8 : 33$, $P_9 : 33$, $P_{10} : 77$, 2128873 VIP!

2. It has already reversed, but main level still kept.

   (a) **ag**: P_9, P_{10} concave, P_8, P_7, P_6 convex,C_6, C_5, C_4 up. 2099360 reached lowest and 2099394 going up.

   (b) **au**: P_9, P_{10} concave, P_8, P_7, P_6, P_5 convex,C_6, C_5, C_4, C_3 up. 2099528 reached lowest and 2099590 going up.

   (c) **m9**: 2099200 $P_0 : 77$, $P_1 : 33$, $P_2 : 55$, $P_3 : 44$, $P_4 : 77$, $P_5 : 55$, $P_6 : 77$, $P_7 : 33$, $P_8 : 66$, $P_9 : 66$, $P_{10} : 66$, $P_{11} : 44$

   (d) **MA**: 2099200 $P_0 : 77$, $P_1 : 33$, $P_2 : 77$, $\mathbf{P_3 : 33}$, $P_4 : 55$, $P_5 : 55$, $P_6 : 77$, $\mathbf{P_7 : 33}$, $P_8 : 66$, $P_9 : 66$, $P_{10} : 66$, $P_{11} : 44$

   (e) **rb**: 2099200 $P_0 : 77$, $P_1 : 55$, $P_2 : 55$, $P_3 : 44$, $P_4 : 77$, $P_5 : 77$, $P_6 : 77$, $P_7 : 55$, $P_8 : 44$, $P_9 : 44$, $\mathbf{P_{10} : 22}$, $P_{11} : 44$

   (f) **RM**: 2099200: 0:44 1:55 2:55 3:44 4:77 5:55 6:55 **7:33** 8:66 9:66 10:66 11:66

   (g) **SR** 2099200: 0:77 1:55 2:44 3:44 4:55 5:66 6:55 **7:22 8:11** 9:44 10:44 11:55

   (h) **y9** 2099200

3. It has already reversed, but has a small reversed of reversed

   (a) **y9** 2099200 0:55 1:44 2:77 3:77 4:77 5:77 6:77 7:55 8:55 9:44 10:55 11:44

4. It has a good direction and will reverse later.

   (a) has a small revers

      i. bu 2117829 reached maximum, $P_0 : 46$, $P_1 : 44$, $\mathbf{P_2 : 22}$, $P_3 : 66$, $P_4 : 66$, $\mathbf{P_5 : 22}$, $P_6 : 44$, $P_7 : 44$, $\mathbf{P_8 : 22}$, $P_9 : 44$, $P_{10} : 44$, $P_{11} : 66$

      ii. **OI**

   (b) keep direction

    i. **CF** 2101266 reached L_0 L_5 maximum, P_0 : 66, P_1 : 66, $\mathbf{P_2}$: **22**, P_3 : 44, P_4 : 66, P_5 : 44, P_6 : 77, P_7 : 77, $\mathbf{P_8}$: **33**, P_9 : 44, P_{10} : 55, $\mathbf{P_{11}}$: **33**. *VVIP!! 2102505* $\mathbf{P_0}$: **33**, P_1 : 77, P_2 : 77, P_3 : 77, P_4 : 55, P_5 : 66, P_6 : 77, P_7 : 77, $\mathbf{P_8}$: **33**, P_9 : 44, P_{10} : 55, $\mathbf{P_{11}}$: **33**.

    ii. Normal: **c9 FG l9 ni zn**

(c) flat to curve

    i. **p9** 2099200: interesting :-)

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