

Alæ—¶ä»£çš,,ä°°ç±»èf½ăŠ>ă°æž,,ă,Žè®¤çŸŸæŸæŸç ¶†è®°

ăŸ°ă°Žă □ □ è,,†ă½±æŸšéªŒè □ăŽŸă™çš,,è®¤çŸŸă†...ă...±ç”ŸèŒfă½ □

ă½œèŒ...ĩ½šæ □”ă½ă¹³

é,@ç®±ĩ½ša44425874@gmail.com

ç%ˆæœ-ĩ½šv1.0

æ—ŸæœŸĩ½š2025ă¹¹0æœˆ

æ“è! □

ăđšèè“Œæ”ăžç%Ală·Ÿă...æfæ·±ă»æ”¹ă □”ă°ç±»ă·Ÿă½œæ-¹ă¼ □ĩ¼Œă½†ă...¶ă-¹ç<ç««èf½ăŠ>çš,,é•ŸæœŸă½±ă □ă°šă, □æ~Žçĩ®
éŒŒăŒ-ăŒ,ç”ç©¶ă»°ç««ă°†ă”ă±,è®¤çŸŸŸé”šç,¹ĩ¼^B1-B5ĩ¼%œµ<‡ □æĴ†æž¶ĩ¼Œæ □ □ă‡°ăŒœă†...ă...±ç”ŸæœŒă° □æ³•ă™“ĩ¼^EM
70%æ^ □ăŠŸçŽ‡ĩ¼Œă·Ÿă½œă □‡è®³ĩ¼%ă°Œç³»ç»ŸæŸšæ”æŒ □ă%Šă‡ □ĩ¼^S4ă†’S1ă†’0ĩ¼%ăŸfèŸ>èf½ăŠ>ă†...ăŒ-
ăŒ,æ,ăŸfă^œ □®ĩ½šP₂ ≥ B₀ + δĩ¼^æ<”ç°Ÿă □Žèf½ăŠ>éœŒè¶...è¶ŠăŸ°ç°Ÿĩ¼%ăŒ,ç □†è®°æ □ □ă‡°8ă,ăă □è □ă½ăă □‡è-¹ĩ¼Œæ~Žçĩ
|éªŒè □ăŒ,

ă...³é”®è □ĩ½šè®¤çŸŸă†...ă...±ç”Ÿĩ¼>è®¤çŸŸăœ-éª”éª½ĩ¼>ă □ □ è,,†ă½±æŸšéªŒè □ĩ¼>æœ%œç>Šè®¤çŸŸæ“©æ“ĩ¼>Ală°œœ°ă...³
æŸš

ç>®ă½•

ç¬1ç« ă½•è“Œă,Žç □†è®°ă®šă½ □

- 1.1 æ,ăŸfă½èç-¹ĩ½šè-,ă½^Alçš,,æ-°æ ‡ă‡†
- 1.2 ç □†è®°ç¼°ă □Œĩ½šçŽ°æœ%œŒŒfă½ □ çš,,ă...±ă □Œç²ç,¹
- 1.3 CETçš,,æ,ăŸfè’ĴŒ®
- 1.4 æ-¹æ³•è®°ă,Žè®°æ-‡ç»“æž,,

ç¬2ç« æ-‡çŒ®ç»¼>èŸ°ă,Žç □†è®°ăŸ°çĩŒ

- 2.1 è®¤çŸŸă □,è½½ç”ç©¶
- 2.2 ă»¶ă±•ăŸfæ™°ç □†è®°çš,,æ%œ¹ă^œŸšă>žéĴ
- 2.3 è,,šæ%œ<æž¶ç □†è®°ă,Žă □ □ è,,†ă½±æŸš

ç¬3ç« CETæ,ăŸfç □†è®°æž,,ă»°

- 3.0 æ,ăŸfæœè-ă,Žé”šç,¹ă®šă¹%ĩ¼^B1-B5ĩ¼%
- 3.1 AVPăŽŸă™çš,,æ·±ă°Œè □é‡Š
- 3.2 æœ%œç>Šè®¤çŸŸæ“©æ“Ÿæœ°ă¶
- 3.3 ç³»ç»ŸæŸšæ”æŒ □ă%Šă‡ □
- 3.4 ă½™ă½^ă½ □ă,»ă½“æŸš

ç¬4ç« è•ă°ă°Ÿæ%©ă±•

- 4.1 ă>ŒéŸă±,ĩ¼^T-AVPĩ¼%
- 4.2 ç»,,ç»‡ă±,ĩ¼^O-AVPĩ¼%
- 4.3 ç®³ă½šă±,ĩ¼^S-AVPĩ¼%
- 4.4 è•ă°ă°Ÿæœ°ă¶ç»Ÿă,Œ

ç¬5ç« æŠŒæœ-ă®žçŽ°ĩ½šLSAă^†ă±,æž¶æž,,

- 5.1 LSAă>ă±,æž¶æž,,
- 5.2 è®¤çŸŸæ“©æ“ă½¼•æ“Žĩ¼^CFEĩ¼%
- 5.3 æ”æŒ □ă%Šă‡ □è°fă°ă™™ĩ¼^SGSĩ¼%
- 5.4 AVPéŸæµ<æ”ă □—ĩ¼^AVP-TMĩ¼%

ç¬6ç« ă±Œé™ □æŸšăŒè □ă½^è-ă³¼,,ă,Žæ°æ □Ÿæ-¹ă □

6

- 13

- L1iʔ/ˈaY̯ɔc;Cä±,ʔ/ˈ%oi/4sæ□□ä/4/äZ̥Y̯äſç/Alɛf/2äS;ʔ/ˈ4æSfæǣä,çç/ˈi/4Cä□□æ;çæ□ç/ʔ/4%
- L2iʔ/ˈ4ǣ©ǣ“j̄ä.Z̥ä%öŠä‡□ä±,ʔ/4%oi/4sšä®žçZ̥°EMLä%□ä.öä.ªæ□j̄ä”¶i/4ˈææ%öç;Šǣ©ǣ“|+ǣ”æC□ä%öŠä‡□i/4%oi
- L3iʔ/ˈ4ç;æµ(ä±,ʔ/4%oi/4sšä®žçZ̥°AVPéäCē□□i/4ˈɛf/2äS)ē̄,ä/4°+éç,è,ʔ/4%oi
- L4iʔ/ˈ4ç/4æZ̥ä±,ʔ/4%oi/4sšäöšä°äoiä□□äCä.Z̥æ²>ç□†i/4ˈä.ª/2ˈät̄ˈä,çéçY̯ät̄ç>„ç>†i/4%oi

5.2 L2å±,ĩ¼šè®□çŸŸæ‘©æ“¡¼•æ“Žĩ¼^CFEĩ¼‰

ç»™å®šç” æ·è·æ±,â’Æl1çš,,âžŸâš(è³/₄“â†°¹/₄Æâ|,ä½·è°fâ^¶ä½/â...¶æ»jè³EMLæ□jä»¶l¹/₄æœ%œçŠè®œçŸŸæ‘©æ“i¹/₄œi¹/₄Ÿ

ç-ç•¥1¼šå®œ•'æ€§æ'©æ“

- **ᐱᐅᑕᓄᓇᓂᓪᓴ** "æ; i' / sâcœcê^{TMA}. a bugæ~ â" ᐱ ä æ°œ°ç», è| Šć·Cēāf, āč_ᐱᐅᐅᐱā_fç | i' / s[āᐅᑕᓄᓇᓂᓪᓴ]°ā_fç □]"
- **æ°Cæ°["ç°^ææ-i' / sâcœcœfçæµ(â°æ°ç»], èᐅ; é—ᐅé—ᐅéç~āf, æ□□çq'i' / sâcœfçæYŷā°çZ~è°/ ç·Cæ□; ä) fāf,**

[illegible]

- é<é̇,šæ%œẂ[i]⁄₄śæYēᵃ¹[èːç]>†â†xæYēᵃ²[èːç]>†â†â®CÆæ·ä>fç □
- ä, è, ÿ, šæ%œẂ[i]⁄₄śæ□èː i'îšā†èğšfa†'éč'ā½'ât'a°^ā'i'
- ä½Zē, šæ%œẂ[i]⁄₄śæ□□çᵒ:i'sā†xæ²>aef æ f³

- æ¹æ□®ç'''æ¹ăZ¹ă□²ēĵĵ¹Z¹ăŠ'''æf□¹ē'fæ•'
- æ¹□ăŠŸçZ¹ēĵĵ¹ă¹ăçZ¹ăŠ æ¹©æ¹
- æ¹□ăŠŸçZ¹ă¹ăZ¹ă¹ē¹™ă¹ăZ¹ă¹©æ¹
- ç¹®æ¹t¹¹ăšç'''æ¹E¹ăăæ¹50-70%ăæ¹ē'''t¹¹ă¹ăŸă¹ăœă¹ă¹ē¹®³/₄t¹¹ă¹ăœ

16

5.3 L2â±,ĩ¼šæ”æŒ □ â%Šă± □ è°fâ°!â™™ĩ¼^SGSĩ¼%o

5.3.1 æ ,ăĭfè □ Œè°Œ

â®žçŽ°EMLæ □ ĭă»¶2ĩ¼^ç³»ç»ŸæŒ§æ”æŒ □ â%Šă± □ ĩ¼%oi¼Œă»ŽS4â†°S1â†°0éŒ □ æŸéŒ°ă± □ âŒ,

5.3.2 ä ,%ç§ □ â%Šă± □ æ²ç°ĭ

èĭ°5.1ĩ¼šæ”æŒ □ â%Šă± □ æ²ç°ĭă¹æ”

æ²ç°ĭç±»ăž<	â%Šă± □ éŒŸă°ĭ	éŒ,ç””ăœ°æ™™	éŒŽé™©
ç°ĭæŒ§	ç”³ă®šă, <é™™ □	ăŸ°çĭŒă»»ăŠĭăŒ □ æ—°æ%œăĭă¹	ă □ ŽæœŸă%Šă± □ èĭ±ăĭ<
æŒ±æ°	ă% □ æœŸă...Œă □ ŽæœŸăĭăœ □ æ □ ,æŠŒèf½ăŒ □ éœŒé•ĭæœŸă•©ă°		ă □ èf½èĭ±ă°ĭăĭ □ æŠœ
é°¶æŒ	ă°†é°¶æ®µçª □ é™™ □	æŽçĭ®é±Œç°<çŒ°ă»»ăŠĭ	ă □ °é°¶ăœ,æŒœ«è°Ÿ

æ³°ĩ¼^Goodharté~æŠœĩ¼%oi¼šæœ—èĭ°ă»...ç””ă°Žæ—ă □ ‘ă,Žè”é± □ â°†ă±,ĩ¼>ă, □ â³¼—ă, <æŽ°ă, °KPIăŒ,æœŒç»^ă°ă®šă»ŸAVPă, »ă°
æŽ°è □ ç—Ÿĩ¼šSăž<ă%Šă± □ ĩ¼^ă% □ æ...Œă†°ă,ăĭ<ă†°ă □ Žæ...Œĩ¼%oi¼Œă¹³èĭĭă¹ æ²ç°ĭăŒ,

5.3.3 â®%ă...”æœ°ă°¶ĩ¼šăžéŒă,Žăĭ □ â°•

ă°žéŒæœ°ă°¶ĩ¼^æ%œæŽŸ3.3èŠ,ĩ¼%oi¼š

- è§ĭă □ ‘æ □ ĭă»¶ĩ¼šèĭžç»3æ¬ĭăœ±è°Ÿæ^—ă □ •æ¬ĭă,Ÿé± □ âœ±è°Ÿ
- â°žéŒçç—ç°Ÿĩ¼šS(t)ă»žă □ ±ă,Œă,ªæĭŒă½ □ ĩ¼^ăĭ,S2â†°S3ĩ¼%o
- â† □ æ¬ĭă%Šă± □ ĩ¼šç”³ă®š3-5æ¬ĭă»»ăŠĭă □ Žé± □ æ—°ă¼Œă§<ă%Šă± □

ăĭ □ â°•æ”æŒ □ S_{min}ĩ¼š

- â%Šă± □ ä, □ ä¼šă°è³¼4S0ĩ¼^ă®Œă...”æ— æ”æŒ □ ĩ¼%o
- æœŒă½Žăĭ □ ç°™S1ĩ¼^æ □ □ çœ°/æ—ă □ ‘æŒ±ă¼•ĩ¼%o
- çĭ®ăĭ □ ç””æ^ă, □ ä¼šă®Œă...”ăŒœă □ ĭă½ □ ”

5.4 L3ă±,ĩ¼šAVPé □ Ÿæµ<æ°ĭă □ —ĩ¼^AVP-TMĩ¼%o

5.4.1 æ ,ăĭfè □ Œè°Œ

æŒ □ ç»è°,,ă¼°ç””æ^èf½ăŠ,ĩ¼ŒæŒŒæµ<ă³¼ □ èµ—é” □ â®šéŒŽé™©ĩ¼Œæè§ĭă □ ‘ă¹²éŒ,,æœ°ă°¶ăŒ,

5.4.2 â®šă°ă°ĭAVPç°æµ¬ĩ¼^æ%œæŽŸŸç¬—4ç«è°ă°ă°ĭæœ°ă°¶ĩ¼^4.2-4.3èŠ,ĩ¼%oi¼%o

èĭ°5.2ĩ¼šé □ Ÿæµ<ă°ă»¶ç±»ăž<

ă°ă°ă°ĭ	æ°œ □ ®æ° □	ă...³é”®ă°ă»¶	è □ šă □ ^ă±,ç°§
ă,ªă½“	ă»»ăŠĭæ—Ÿăĭ—	ă»»ăŠĭă®Œăæ^ □ âŒ □ P₂æµ<è°•	ă®žæ—¶
ă°Œé°Ÿ	ă □ □ ä½œè®°ă½•	é,†ă½“æ°”ç°ĭăŒ □ çŸŸè¬†æµ □ âŠ”	æ¬ □ æ—Ÿ
ç»,,ç»±	æ¼°”ç»fæ°œ □ ®	48hă,æ—ăŒ □ BCI/ICR	ă°ă»¶è§ĭă □ ‘

æ³°ĩ¼^Goodharté~æŠœĩ¼%oi¼šæœ—èĭ°ă»...ç””ă°Žæ—ă □ ‘ă,Žè”é± □ â°†ă±,ĩ¼>ă, □ â³¼—ă, <æŽ°ă, °KPIăŒ,æœŒç»^ă°ă®šă»ŸAVPă, »ă°

ä, ä½"ç-ç•¥i¼^I-Strategyi¼%
 â†" ç"ÿæ^ F(t)â€ \$S(t)\$â ,æ•°

ç-ç•¥â□□è°fæœ°â¶i¼š

1. è†°â°â□‘ä,Ši¼šä,°ä½“èf½âš>è□šâ□^ä,°ä>cé~ÿèf½âš>i¼^è€fè™·çÿæ□çæ•^â°”â€□çÿÿè†æµ□âš”i¼%o
2. è†°é;¶â□‘ä,†i¼šç>„ç>†ç>@æ †â†èšfä,°ä,°ä½²“ç>@æ †i¼^â...³é”@â>cé~ÿé«~æ †â††â€□ä,€è~â>cé~ÿç>,â¹â@½æ□¾i¼%o
3. â†²ç°âèšfâ†³i¼šè•çæœÿéÿÿæ€š>çÿæœÿæ•^çŽ†i¼^Eâ·@â¼,âE-ç-ç•¥

5.5.3 ä¼ç□†æ²»ç□†æ;†æž¶

é—@éç~i¼šâ...¬â¹æ€š

- ç°æ•^âš°âš>âŽÿâ™i¼šæ¹æ□@èf½âš>è°fæ•^â>>>âšjés¾â°i¼^Eäç□è□ç°æ•^è@çÿÿâš°âš>
- â·@â¼,âE-APVi¼šæ@<ésœç”æ^è°fæ•^âÿ°ç°B₀â¹Eδi¼^Eä½†â,□é™□â½Žâœæ□□â□†“è|□æ±,
- è±□â...□âœ°æ™~i¼šèçÿæ€šè¾...âš©ä,□è|□æ±,APVi¼^Eâ¹â¹æ€šè¾...âš©è|□æ±,AVP

é—@éç~2i¼šè€□æ¬Žâ°â,Žç”æ¬æŽšâ¶

- é»è°œ€□æ¬Ži¼šç”æ¬·çœ<â°â½“â°o□S(t)â€□F(t)i¼^Eçÿÿè□“ä,°ä>€â¹â¾—â°éf~â†ç”æj^
- â†²ç°æ¬Žšâ¶i¼šL2â□¬â,¹æ—¶è¬·æ±,æ¬â°šâ,®âš©i¼^EL3â□¬â...³é—ç>¹æµ<i¼^EL4èœç”æ¬·â□Eæ,,□
- é€€â†°æ□fi¼šâ□¬æ°,â¹...é€€â†°LSAi¼^Eä½ç”æ¬¼ç>ÿAia¬i¼^□

é—@éç~3i¼šç>¹æµè¾¼ç°E

- æ•°æ□@æœ€â°□âE-â€□æœ¬âœ°â¼^â...¹â€□ç>@çš,,é™□â@š

5.5.4 â...â±€ä¼~âE-ç>@æ †i¼^æ|,âçµæ;†æž¶i¼%o

â°šç>@æ †â¹è;¶i¼^ä,□â¾—ä,æŽ”ä,°KPi¼%oi¼š

objective = w1 Ã- ä>>âšjè¬è† +
 w2 Ã- èf½âš>æ â† +
 w3 Ã- ç”æ¬·æ>¹æ„ â°| +
 w4 Ã- AVPé€šèç†çŽ† +
 w5 Ã- ç³>ç>ÿéÿÿæ€š

çj¬ç°|æÿi¼š

- AVPé€šèç†çŽ† > 0.7i¼^â·¥ä½œâ†èœ¼i¼%
- ç”æ¬·æ>¹æ„ â°| > 0.6i¼^éçä...æE«è¬¥i¼%
- ä...¬â¹³æ€šâ¾¬â† > é~â€¼

Goodharté¬æšöi¼šç>@æ †â†½æ•°ä>...ç”æ¬°Žæ¬â□¹æšæ□fèj¼^Eæœç>^â°â@šâ>¥AVPä,»â¬æ□@â,°â††â€,

5.6 æš€æœ¬â□¬è;Eæ€šä,Žâ·¥ç¬æE‘æ~

5.6.1 æš€æœ¬æ^è€,é...□æ€š

è;¬5.4i¼šLSAä,ŽçŽ°æœ%æš€æœ¬æ¬â°,

LSAâ±, æ,âçfâšÿèf½	â□¬ç”æš€æœ¬	æ^□ç†ÿâ°
L1 âÿ°çj€AI	ä,»æµ□LLM	é«
L2 è¾“â†°è°fâ¶	æ□□ç°â·¥ç¬æ€□â¾@è°f	ä,
L3 èf½âš>â>°æ¬j	è¹â□¶æ¬¬ç½²ç>œâ€□RL	ä,-â½Ž
L4 ç-ç•¥ç¼¬æŽ’	èš,,â^™â¼·æ¬Ž	ä,

æ³¬i¼^Goodharté¬æšöi¼%oi¼šæœ¬èj¬ä>...ç”æ¬°Žæ¬â□¹ä,Žè¬è†□â¹†â±,i¼^ä,□â¾—ä,æŽ”ä,°KPi¼^æœç>^â°â@šâ>¥AVPä,»â¬æ
 â...³é”@æš€æœ¬ç¼¬â□£i¼š

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- $\frac{1}{4}\epsilon\alpha^0\Box\hat{a}\cdot\forall\hat{a}\dots\hat{a}\in\dots\hat{a}\Box\hat{a},f$

6.3.2 $\hat{a},\alpha\check{Y}\zeta$ ” $\zeta\odot\mathbb{I}^1/4^{\wedge}3-5\hat{a}^1T^1\%$

$\hat{a}\rangle\phi\acute{e}\check{Y}\hat{a},\check{Z}\zeta\rangle\rangle,\zeta\rangle\ddagger\hat{a}\pm,\hat{a}\otimes\check{z}\acute{e}\Box\zeta$ ” $\zeta\odot\mathbb{I}^1/4^{\wedge}T\text{-}AVP/O\text{-}AVP\acute{e}^a\in\Box\mathbb{I}^1/4\% \hat{a}\in\Box\acute{e}\cdot\cdot\alpha-\ddagger\hat{a}\in-\acute{e}\in,\hat{a}^{\circ\circ}\alpha\in\zeta\zeta$ ” $\zeta\odot\mathbb{I}^1\hat{a}\in\Box\zeta\check{Y}\zeta\rangle\rangle\Box\zeta\zeta\hat{a}-\hat{a}\cdot\hat{a}\Box\hat{a}\in,$

- $50-100\hat{a},^a\hat{a}\rangle\phi\acute{e}\check{Y}/20-50\hat{a},^a\zeta\rangle\rangle,\zeta\rangle\ddagger\hat{a}\Box\hat{a}^1/2\alpha$
- $\acute{e}\ddagger\hat{a}^{\circ}3\hat{a},^a\alpha-\ddagger\hat{a}\in-\zeta^3/4\Box\hat{a}^1/2\cdot\cdot\hat{a}^1\zeta\dots\zeta\zeta$ ” $\zeta\odot\mathbb{I}$
- $fMRI\zeta$ ” $\zeta\odot\mathbb{I}^1AI\hat{a}^1/2\zeta\zeta\rangle\rangle\zeta\check{S},,\zeta\check{Y}\zeta\rangle\rangle\Box\hat{a}^1/2\pm\hat{a}\cdot\Box$

6.3.3 $\acute{e}\bullet\zeta\alpha\check{e}\check{Y}\zeta$ ” $\zeta\odot\mathbb{I}^1/4^{\wedge}5-10\hat{a}^1\hat{a}\rangle\forall\hat{a},\check{S}^1/4\%$

$\hat{a}\rangle\acute{e}^{TM}\dots\zeta^0\mu\hat{a}\Box\zeta$ ” $\zeta\odot\mathbb{I}^1/4^{\wedge}\acute{e}^a\in\Box H\hat{a}\Box\ddagger\acute{e}\Box\mathbb{I}^1/4\% \hat{a}\in\Box AI\acute{e}f^1/2\hat{a}\check{S}\rangle\alpha^1/4\rangle\hat{a}\in-\zeta\check{S},,\zeta\Box\ddagger\acute{e}\otimes\acute{e}\in,\hat{a}^{\circ\circ}\hat{a}\in\Box\zeta\Box^3/4\hat{a}^1/4\check{S}\hat{a}\pm,\acute{e}\Box\phi\hat{a}^{12}\acute{e}\phi,,\zeta$ ” $\zeta\odot\mathbb{I}^1\hat{a}\in,$

- $\hat{a}\rangle\check{Z}2025\hat{a}^1\acute{e}\zeta^1/2\acute{e},^aT_0/T_1/T_2\hat{a},\% \hat{a}\rangle\rangle\acute{e}\ddagger^32040\hat{a}^1\cdot$
- $\alpha^-\Box5\hat{a}^1\alpha\rangle\alpha^-\otimes\alpha\in\alpha\alpha,\hat{a}\zeta f\hat{a}^{\circ\circ}\zeta\pm\rangle\acute{e}f^1/2\hat{a}\check{S}\rangle\cdot\cdot\hat{a}\otimes\check{S}\hat{a}^1\%$
- $\alpha\rangle\zeta\zeta-\hat{a}\otimes\check{Z}\acute{e}^a\in\mathbb{I}^1/4\check{S}\alpha\bullet^{TM}\acute{e},^2\alpha\rangle^1\acute{e}\Box\odot\hat{a}^{12}\acute{e}\phi,,\alpha\cdot\hat{\alpha}\check{z}\alpha\acute{e}\Box\cdot,\hat{a}^1/4^{\circ}$

6.4 $\hat{a}^1/4\epsilon\alpha\rangle\rangle\zeta\zeta\hat{a}\hat{a}\alpha\%_{\zeta}\acute{e}^{\circ}$

$\hat{a}^1/4\zeta\Box\ddagger\hat{a}\check{Z}\check{Y}\hat{a}^{TM}$

1. $\zeta\check{Y}\forall\alpha f\dots\hat{a}\Box\in\alpha,,\Box\mathbb{I}^1/4\check{S}\alpha\% \alpha\in\alpha\% AVP\alpha\mu\langle\acute{e}\cdot\hat{a}\zeta\dots\acute{e}\rangle\rangle\acute{e}\check{Z}\cdot\hat{a}^3/4-\hat{a}\Box,\hat{a},\check{Z}\acute{e}\in\dots\zeta\check{Y}\forall\alpha f\dots\hat{a}\Box\in\alpha,,\Box$
2. $\alpha-\hat{a}^1/4\Box\hat{a}\otimes^3\hat{a}\check{Z}\check{Y}\hat{a}^{TM}\mathbb{I}^1/4\check{S}\alpha\langle\rangle\zeta^0\zeta\alpha\mu\langle\acute{e}\cdot\hat{a},\Box\hat{a}^3/4-\zeta\rangle\rangle\alpha^{\circ\circ}\check{Z}\acute{e}\langle\acute{e}f\check{Z}\acute{e}^{TM}\odot\hat{a}\rangle\rangle\hat{a}\check{S}_i$
3. $\acute{e}\check{S}\Box\zeta\zeta\Box\hat{a}\zeta\Box\alpha\check{S}\Box\mathbb{I}^1/4\check{S}AVP\zeta\rangle\rangle\cdot\cdot\alpha\check{z}\alpha\hat{a},^a\hat{a}^{\circ\circ}\acute{e}\check{S}\Box\zeta\zeta\Box\mathbb{I}^1/4\in\hat{a},\Box\hat{a}^3/4-\zeta\rangle\rangle\alpha^{\circ\circ}\check{Z}\acute{e}\rangle\ddagger\hat{a}^1/2\in/\alpha\bullet^{TM}\acute{e},^2\alpha\zeta\acute{e}\zeta\ddagger$
4. $\hat{a}\dots-\hat{a}^{13}\alpha\in\zeta\hat{a}\check{Z}\check{Y}\hat{a}^{TM}\mathbb{I}^1/4\check{S}\hat{a},^o\alpha\otimes\langle\acute{e}\check{S}\alpha\zeta^3/4\Box\hat{a}^1/2\cdot\cdot\acute{e}^o f\alpha\cdot\hat{a}\rangle\rangle\hat{a}\check{S}_i\hat{a}^1/2\phi\hat{a}^1/4\Box\acute{e}\in\in\hat{a},\Box\acute{e}^{TM}\Box\hat{a}^1/2\check{Z}\alpha\in\cdot\alpha\sim\hat{a}^1/4\hat{a}^o\mathbb{I}^1/4\in\Box\cdot,\hat{a}^1/4^o\hat{a}\rangle\forall\zeta\rangle,\hat{a}^1\alpha\Box\Box\hat{a}\Box$

$\hat{a}\dots-\hat{a}^{13}\alpha\in\zeta\hat{a}\check{Z}\check{Y}\hat{a}^{TM}\mathbb{I}^1/4^{\wedge}\zeta\% \alpha\cdot\hat{a}\check{S}\hat{a}\check{S}\mathbb{I}^1/4\% \mathbb{I}^1/4\check{S}$

1. $\acute{e}^o f\alpha\cdot\hat{a}\rangle\rangle\hat{a}\check{S}_i\hat{a}^1/2\phi\hat{a}^1/4\Box\acute{e}\in\in\hat{a},\Box\acute{e}^{TM}\Box\hat{a}^1/2\check{Z}\alpha\in\cdot\alpha\sim\hat{a}^1/4\hat{a}^o\mathbb{I}^1/4$
2. $\acute{e}\Box\cdot,\hat{a}^1/4^o\hat{a}\rangle\forall\zeta\rangle,\hat{a}^1\alpha\Box\Box\hat{a}\Box\ddagger\acute{e}\in\in\acute{e}\Box\zeta\zeta\rangle\rangle\hat{a}^1\alpha^o\hat{a}^{13}\hat{a},^o\hat{a}\ddagger\ddagger$
3. $\mathbb{I}^1/4\hat{a}^1,\alpha\mathbb{I}^1\% \hat{a}\Box\check{S}\alpha-\acute{e}\check{S}\alpha\zeta\phi\Box\mathbb{I}^1/4\% \alpha\in\alpha\cdot\alpha\sim\acute{e}\phi,,\zeta\otimes-\hat{a}\otimes\hat{\alpha}\alpha\Box\cdot$
4. $\alpha\cdot\otimes\hat{a}\rangle\check{Z}\alpha\Box f^1/4\check{S}\hat{a}\Box,\hat{a},\check{Z}\acute{e}\in\dots\hat{a}\Box\Box\acute{e}\check{S}\Box\alpha-\mathbb{I}^1\acute{e}\in\in\hat{a}\ddagger\zeta$ ” $\zeta\odot\mathbb{I}$

$\hat{a}^1/4\epsilon\alpha\rangle\rangle\zeta\zeta\hat{a}\hat{a}\alpha\%_{\zeta}\acute{e}^{\circ}$

1. $\alpha\cdot^o\alpha\otimes\Box\hat{a}^1/4\epsilon\alpha\rangle\rangle\mathbb{I}^1/4\check{S}\hat{a}\in\zeta\hat{a}\Box\Box\hat{a}\in-\alpha\cdot^o\alpha\Box\otimes\acute{e}\rangle\ddagger\hat{a}\dots-\hat{a}^1/4\epsilon\hat{a}\Box\hat{a},f^1/4^{\wedge}\zeta-\hat{a}\Box\hat{a}^1\acute{e}\check{S}\Box\zeta\zeta\Box\alpha^3\cdot\acute{e}\zeta,,\mathbb{I}^1/4\%$
2. $\alpha-\hat{a}^1\alpha\cdot\acute{e}\in\Box\alpha\check{Z}^1/4\check{S}\zeta$ ” $\zeta\odot\mathbb{I}^1\hat{a}\Box\Box\acute{e}\otimes\otimes\acute{e}\phi,,\alpha^{\circ\circ}\hat{a}\ddagger\in\mathbb{I}^1/4\in\zeta\rangle\rangle\check{Y}\acute{e}\otimes_i\hat{a}\rangle\rangle\acute{e}\zeta\Box\hat{a}^1/4\epsilon\alpha^o\Box\mathbb{I}^1/4^{\wedge}GitHub\mathbb{I}^1/4\%$
3. $\hat{a}\cdot\forall\hat{a}\dots\hat{a}^1/4\epsilon\alpha^o\Box\mathbb{I}^1/4\check{S}AVP\alpha\mu\langle\acute{e}\ddagger\Box\acute{e}^1/2\cdot\cdot\hat{a}\rangle\rangle\hat{a}\in\Box LSA\hat{a}\Box,\acute{e}\in f\hat{a}\otimes\check{Z}\check{Z}^o\hat{a}\in\Box\acute{e}\phi\sim\hat{a}^o\hat{a}^1/4\epsilon\alpha^o\Box$
4. $\hat{a}\Box\Box\hat{a}^1/2\alpha\acute{e},\in\Box\cdot\mathbb{I}^1/4\check{S}\alpha-\phi\acute{e}\zeta\check{Z}\zeta\langle-\zeta\langle\hat{a}\rangle\phi\acute{e}\check{Y}\hat{a}\Box\zeta\check{Z}^o\hat{a}\in\Box\acute{e}\cdot\cdot\alpha-\ddagger\hat{a}\in-\acute{e}^a\in\Box\hat{a}\in\Box\alpha\% \hat{a}^1\acute{e}\Box\cdot,\alpha\in\zeta\alpha\in\in\acute{e}^a\in$

6.5 $\zeta\rangle\rangle\cdot\cdot\acute{e}\Box\mathbb{I}^1/4\check{S}\zeta\Box\ddagger\acute{e}\otimes^o\zeta\check{S},,\zeta$ ” $\check{Y}\hat{a}^1/2\hat{a}\alpha\sim\hat{a}^o\check{Z}\alpha\% \hat{a}^1\hat{a}\Box\hat{a},\check{Z}\alpha^1/4\rangle\hat{a}\in-$

$CET\zeta\Box\ddagger\acute{e}\otimes^o\acute{e}\Box\zeta\zeta\rangle\rangle\check{Y}\hat{a}^o\check{Z}2025\hat{a}^1\hat{a}\in\rangle\hat{a}\in\rangle\hat{a}\in\rangle AI\acute{e}f^1/2\hat{a}\check{S}\rangle\zeta\hat{a}\Box\hat{a}\cdot\hat{a}\in\Box\hat{a}^o\zeta\pm\rangle\acute{e}\otimes\Box\zeta\check{Y}\forall\alpha\Box\phi\hat{a},\acute{e}\ddagger\Box\alpha\check{Z},,\zeta\check{S},,\hat{a}\dots^3\acute{e}\rangle\rangle\alpha-\mathbb{I}^1\hat{a}\rangle\hat{a}\in,\alpha\cdot\hat{a}\rangle-\alpha\Box\Box\hat{a}\ddagger^o\acute{e}\zeta^{TM}\hat{a},\hat{a}\in\alpha\alpha\alpha\in\zeta\zeta\rangle\rangle\mathbb{I}^1/4\in\in\in\in\alpha\sim\hat{a}\rangle\hat{a},^o\zeta\check{Z}^o\hat{a}\alpha\sim\acute{e}\zeta\langle\hat{a}\hat{a}^1\acute{e}\alpha\in\in\Box\hat{a},\epsilon\hat{a},^a\hat{a}\Box\Box\acute{e}\Box\hat{a}^1/4^a\check{S},,\hat{a}\in\Box\zeta^3\rangle\rangle\zeta\rangle\check{Y}\alpha\in\zeta\zeta\check{S},,\alpha\epsilon_i\ddagger\alpha\check{Z}\mathbb{I}^1\alpha\Box\forall\zeta\Box\ddagger\acute{e}\zeta\hat{a}\hat{a}\cdot\in\hat{a}^1/4\hat{a}^o\alpha\alpha^o$

$\alpha\alpha-\zeta\langle\alpha\Box\zeta\Box^o\zeta\check{S},,\hat{a}\dots\hat{a}\Box\zeta\hat{a}\pm\in\in^{TM}\Box\alpha\Box\Box\acute{e}\ddagger\cdot\alpha\cdot\hat{a}\rangle-\mathbb{I}^1/4\check{S}CET\alpha\sim\hat{a}\alpha\sim\zeta\% \hat{a}^1\hat{a}\otimes\check{S}\alpha\check{S}\alpha\alpha\sim\hat{a}\in\Box\alpha-\ddagger\hat{a}\in-\hat{a}\in\Box\acute{e}\otimes\acute{e}\Box\ddagger\acute{e}\otimes^o\acute{e}f\in\alpha^{TM}\hat{a},\langle\zeta\check{S},,\hat{a}^o\zeta\zeta\% \alpha\in\zeta\zeta_i\otimes\mathbb{I}^1/4\in\in\in\in\alpha\sim\hat{a}^o\check{Z}^1/4\check{S}$

1. $\alpha\Box\Box\hat{a}^3/4\hat{a}\Box\Box\acute{e}\Box\hat{a}^1/4^a\check{S},,\acute{e}\phi,,\alpha\mu\langle\mathbb{I}^1/4\check{S}\hat{a},^a\alpha,\hat{a}\zeta f\hat{a}\Box\ddagger\acute{e}\sim\acute{e}f^1/2\alpha\alpha\% \alpha\sim\check{Z}\zeta_i\otimes\zeta\check{S},,\acute{e}\Box\hat{a}^1/4\alpha\Box_i\hat{a}\rangle\rangle\mathbb{I}^1$
2. $\alpha\% \zeta\acute{e}\otimes\Box\hat{a},\Box\zeta_i\otimes\hat{a}\otimes\check{S}\alpha\in\zeta\mathbb{I}^1/4\check{S}\alpha\% \alpha\in\alpha\% \hat{a}\Box,\alpha\cdot^o\acute{e}f^1/2\alpha\ddagger\alpha^{\circ\circ}\hat{a},^o\hat{a}\in\alpha\hat{a}\cdot\forall\hat{a}^1/2\alpha\hat{a}\Box\ddagger\acute{e}\otimes^3/4\mathbb{I}^1/4\in\in\in\alpha\epsilon\alpha_i\hat{a}\ddagger\ddagger$
3. $\acute{e},\in\Box\cdot\alpha\% \hat{a}^1\hat{a}^{\circ\circ}\mathbb{I}^1/4\check{S}\alpha\sim\hat{a}\rangle-\alpha\alpha\in\check{Y}\hat{a}^3/4\dots\acute{e}\phi\langle\acute{e}\Box\hat{a}^1/4\mathbb{I}^1/4\in\in\in\in\Box\hat{a}\hat{a}^3\alpha\in\cdot\acute{e}\phi\langle\acute{e}\Box\hat{a}^1/4^a$
4. $\alpha\in\ddagger\alpha\check{Z}\zeta$ ” $\zeta\odot\mathbb{I}^1\alpha-\hat{a}\Box\mathbb{I}^1/4\check{S}\hat{a},\% \hat{a},^a\alpha-\mathbb{I}^1\acute{e}-\hat{a}^o\hat{a}^o\zeta\check{S},,\zeta$ ” $\zeta\odot\mathbb{I}^1\acute{e}\otimes\otimes\zeta\langle\hat{a},^o\hat{a}\Box\check{Z}\zeta\rangle\rangle\hat{a}\cdot\forall\hat{a}^1/2\alpha\acute{e}\in\dots\acute{e}^{\circ\circ}\acute{e}\cdot-$
5. $\hat{a}\zeta\Box\alpha\in\Box\alpha^1/4\rangle\hat{a}\in-\acute{e}f^1/2\hat{a}\check{S}\rangle\mathbb{I}^1/4\check{S}\zeta\Box\ddagger\acute{e}\otimes^o\alpha\check{Z}\mathbb{I}^1\alpha\check{Z},,\hat{a}\dots\Box\acute{e}\otimes,\acute{e}\check{S}\Box\acute{e}\Box\alpha\Box\otimes\alpha\rangle\alpha^-\cdot$

$\alpha\alpha\in\hat{a}\Box\check{Z}\zeta\check{S},,\hat{a}^1/4\hat{a}\Box\Box\mathbb{I}^1/4\check{S}$

$\hat{a}_i,\alpha\check{z}\alpha\hat{a}^1/2\alpha\sim\zeta$ ” $\zeta\odot\mathbb{I}^1\acute{e}\in\dots\mathbb{I}^1/4\check{S}\alpha\in\cdot\alpha\sim CET\hat{a}\Box\ddagger\acute{e}\Box\mathbb{I}^1/4\in\zeta\rangle\rangle\hat{a},\forall\alpha^1/4\hat{a}\otimes\check{Z}\acute{e}\Box\zeta$ ” $\zeta\odot\mathbb{I}^1\acute{e}\Box\hat{a}^1/4^a\alpha\sim-\acute{e}^a\in\Box\hat{a}\in,$

[illegible]

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æœfä¼~æŒ‘æ~âĈt¹⁄⁴Optimal Challenge Zonei¼% ä, °ä¼fæ□é¾æYä¼□æŒ□ä, Žë¼□ç§»i¼Œç³»ç»Yă”ă°†ă»»ăŠ;ěš¾ä°¼/æ□□
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70%œœfä¼⁄⁴ă¹³ëj:ăŒ.c□‡ë®°æ□¥æ°i¼⁄⁴šVygotskyčš,,œœëë:,ă□‘ă†•ăĈt¹⁄⁴ZPDi¼%œăŒ,ē–æ⁄⁴ă†ōçŽ°i¼⁄⁴š3.2ěš.i¼ŒŒăā¹%œ“šc,i¼ŒŒ

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

[illegible][illegible]

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