3.10 Letter-Pair Analogies: Test Pack

about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Each question gives a pair of letters and shows how it changes into a second pair. Work out the rule connecting the two letters, then apply exactly the same rule to the third pair to find the missing letters. Choose the one option (A to E) that correctly completes the analogy. No letter ever needs to move past Z. Study the worked example above before you begin.

Worked example. AB is to CD as EF is to ? **Answer: GH.** Each letter in the first pair moves forward 2 places in the alphabet to make the second pair (A+2=C, B+2=D). Applying the same rule to EF: E+2=G and F+2=H, so the missing pair is GH.

1 AB is to CD as GH is to ?

- ☐ A) IJ
- ☐ B) HI
- ☐ C) IK
- ☐ D) JK
- ☐ E) GI

---

2 NR is to OR as XM is to ?

- ☐ A) YM
- ☐ B) YL
- ☐ C) XM
- ☐ D) YN
- ☐ E) MY

---

3 QY is to NV as US is to ?

- ☐ A) PR
- ☐ B) SP
- ☐ C) QP
- ☐ D) RP
- ☐ E) RO

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4 AB is to CE as GH is to ?

- ☐ A) IK
- ☐ B) IJ
- ☐ C) HJ
- ☐ D) JK
- ☐ E) HK

---

5 WH is to SE as MG is to ?

- ☐ A) HD
- ☐ B) JC
- ☐ C) ID
- ☐ D) JD
- ☐ E) IC

---

6 BP is to DR as CF is to ?

- ☐ A) HE
- ☐ B) EI
- ☐ C) CF
- ☐ D) EH
- ☐ E) EG

---

7 RB is to UE as UK is to ?

- ☐ A) XM
- ☐ B) XO
- ☐ C) YN
- ☐ D) UK
- ☐ E) XN

---

8 AQ is to ZJ as HO is to ?

- ☐ A) SM
- ☐ B) TL
- ☐ C) HO
- ☐ D) LS
- ☐ E) SL

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9 IC is to HC as BC is to ?

- ☐ A) AB
- ☐ B) AC
- ☐ C) CA
- ☐ D) BC
- ☐ E) AD

---

10 TW is to WT as KB is to ?

- ☐ A) AK
- ☐ B) CK
- ☐ C) BK
- ☐ D) BL
- ☐ E) KB

---

11 EJ is to IN as DH is to ?

- ☐ A) HL
- ☐ B) HK
- ☐ C) HM
- ☐ D) GL
- ☐ E) DH

---

12 VR is to WS as YG is to ?

- ☐ A) ZG
- ☐ B) ZI
- ☐ C) HZ
- ☐ D) YG
- ☐ E) ZH

---

13 CD is to EI as FG is to ?

- ☐ A) HI
- ☐ B) KL
- ☐ C) KI
- ☐ D) IL
- ☐ E) HL

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14 RL is to UO as WE is to ?

- ☐ A) HZ
- ☐ B) WE
- ☐ C) ZI
- ☐ D) ZH
- ☐ E) YH

---

15 IX is to MZ as AW is to ?

- ☐ A) DY
- ☐ B) EY
- ☐ C) EX
- ☐ D) YE
- ☐ E) AW

---

16 GZ is to DW as IY is to ?

- ☐ A) FV
- ☐ B) IY
- ☐ C) FW
- ☐ D) EV
- ☐ E) VF

---

17 QC is to JX as IQ is to ?

- ☐ A) RI
- ☐ B) JR
- ☐ C) RK
- ☐ D) SJ
- ☐ E) RJ

---

18 FN is to BR as JL is to ?

- ☐ A) FO
- ☐ B) FP
- ☐ C) EP
- ☐ D) FQ
- ☐ E) NH

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19 UY is to FB as YC is to ?

- A) BW
- B) BY
- C) XB
- D) BX
- E) AX

---

20 SA is to XC as QT is to ?

- A) WV
- B) VU
- C) QT
- D) UV
- E) VV

---

21 OT is to MR as SX is to ?

- A) PV
- B) QU
- C) SX
- D) RV
- E) QV

---

22 CE is to EC as GI is to ?

- A) GI
- B) IH
- C) HG
- D) IG
- E) IJ

---

23 TJ is to JT as RU is to ?

- A) UQ
- B) VR
- C) US
- D) UR
- E) TR

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24 DG is to HK as MO is to ?

- ☐ A) PR
- ☐ B) RT
- ☐ C) QR
- ☐ D) PS
- ☐ E) QS

---

25 UF is to WC as KO is to ?

- ☐ A) MK
- ☐ B) NL
- ☐ C) LM
- ☐ D) ML
- ☐ E) HQ

---

26 JK is to QP as AG is to ?

- ☐ A) YT
- ☐ B) TZ
- ☐ C) AG
- ☐ D) ZS
- ☐ E) ZT

---

27 NH is to OI as YL is to ?

- ☐ A) ZL
- ☐ B) YM
- ☐ C) YL
- ☐ D) MZ
- ☐ E) ZM

---

28 KD is to PD as LM is to ?

- ☐ A) PM
- ☐ B) RM
- ☐ C) LR
- ☐ D) QM
- ☐ E) LM

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29 CT is to GX as SM is to ?

- [ ] A) QW
- [ ] B) WQ
- [ ] C) SM
- [ ] D) XQ
- [ ] E) WR

---

30 UP is to PU as YX is to ?

- [ ] A) XY
- [ ] B) YY
- [ ] C) XZ
- [ ] D) YX
- [ ] E) WY

---

31 UH is to TG as NS is to ?

- [ ] A) NR
- [ ] B) MQ
- [ ] C) RM
- [ ] D) LR
- [ ] E) MR

---

32 DK is to HI as GU is to ?

- [ ] A) EY
- [ ] B) KT
- [ ] C) JS
- [ ] D) KR
- [ ] E) KS

---

33 TC is to XG as LS is to ?

- [ ] A) WP
- [ ] B) PV
- [ ] C) LS
- [ ] D) OW
- [ ] E) PW

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34 JR is to LU as HB is to ?

- ☐ A) IE
- ☐ B) KD
- ☐ C) JD
- ☐ D) JF
- ☐ E) JE

---

35 PK is to QM as PQ is to ?

- ☐ A) RR
- ☐ B) QS
- ☐ C) SQ
- ☐ D) QR
- ☐ E) PQ

---

36 WH is to UF as EF is to ?

- ☐ A) CE
- ☐ B) EF
- ☐ C) CD
- ☐ D) DD
- ☐ E) DC

---

37 JQ is to NU as GE is to ?

- ☐ A) JI
- ☐ B) KH
- ☐ C) GE
- ☐ D) KI
- ☐ E) LI

---

38 JL is to NP as TC is to ?

- ☐ A) XH
- ☐ B) WG
- ☐ C) XF
- ☐ D) GX
- ☐ E) XG

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39 BF is to YU as ZF is to ?

- [ ] A) AV
- [ ] B) UA
- [ ] C) BU
- [ ] D) AU
- [ ] E) AT

---

40 QW is to UO as QG is to ?

- [ ] A) EN
- [ ] B) EP
- [ ] C) OE
- [ ] D) QG
- [ ] E) EO

---

41 QV is to UV as PG is to ?

- [ ] A) UG
- [ ] B) TF
- [ ] C) TG
- [ ] D) PG
- [ ] E) PK

---

42 RV is to WR as OH is to ?

- [ ] A) TD
- [ ] B) OH
- [ ] C) TE
- [ ] D) TC
- [ ] E) KM

---

43 KV is to HX as DI is to ?

- [ ] A) KA
- [ ] B) DI
- [ ] C) AJ
- [ ] D) FF
- [ ] E) AK

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44 NR is to PT as TH is to ?

- [ ] A) TH
- [ ] B) JV
- [ ] C) VJ
- [ ] D) VK
- [ ] E) VI

---

45 BD is to EG as GP is to ?

- [ ] A) KS
- [ ] B) GP
- [ ] C) JR
- [ ] D) JS
- [ ] E) SJ

---

46 WB is to SD as EO is to ?

- [ ] A) BQ
- [ ] B) QA
- [ ] C) AR
- [ ] D) EO
- [ ] E) AQ

---

47 CH is to DI as TQ is to ?

- [ ] A) US
- [ ] B) RU
- [ ] C) UQ
- [ ] D) VR
- [ ] E) UR

---

48 ND is to QI as LH is to ?

- [ ] A) QK
- [ ] B) OM
- [ ] C) ON
- [ ] D) PM
- [ ] E) OL

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49 JR is to SK as MY is to ?

- A) ZO
- B) MY
- C) YN
- D) NZ
- E) ZN

---

50 EL is to KD as QG is to ?

- A) FP
- B) GP
- C) QG
- D) PF
- E) FO

---

51 YM is to UQ as XI is to ?

- A) SM
- B) TN
- C) TM
- D) XI
- E) UM

---

52 DV is to FX as CR is to ?

- A) DT
- B) CR
- C) TE
- D) ET
- E) EU

---

53 TN is to SP as LT is to ?

- A) LV
- B) NS
- C) JV
- D) KV
- E) KW

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54 BV is to CW as WK is to ?

- [ ] A) XL
- [ ] B) LX
- [ ] C) XM
- [ ] D) WK
- [ ] E) YL

---

55 CJ is to BI as RD is to ?

- [ ] A) QD
- [ ] B) PC
- [ ] C) QC
- [ ] D) CQ
- [ ] E) RC

---

56 CD is to BC as YJ is to ?

- [ ] A) YI
- [ ] B) YJ
- [ ] C) XH
- [ ] D) XI
- [ ] E) IX

---

57 BW is to XC as WV is to ?

- [ ] A) WX
- [ ] B) WW
- [ ] C) WV
- [ ] D) XX
- [ ] E) VX

---

58 CT is to GX as EB is to ?

- [ ] A) IE
- [ ] B) FI
- [ ] C) HF
- [ ] D) IF
- [ ] E) IG

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59 UA is to CW as FX is to ?

- [ ] A) ZH
- [ ] B) ZI
- [ ] C) ZG
- [ ] D) HZ
- [ ] E) YH

---

60 VK is to ZG as PQ is to ?

- [ ] A) PQ
- [ ] B) TL
- [ ] C) MT
- [ ] D) UM
- [ ] E) TM

---

61 KI is to IG as TY is to ?

- [ ] A) TY
- [ ] B) WR
- [ ] C) RW
- [ ] D) RV
- [ ] E) QW

---

62 OG is to IQ as TQ is to ?

- [ ] A) TV
- [ ] B) SU
- [ ] C) SW
- [ ] D) SV
- [ ] E) VS

---

63 SZ is to OW as HF is to ?

- [ ] A) DD
- [ ] B) EC
- [ ] C) DC
- [ ] D) CD
- [ ] E) EB

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64 IQ is to MU as FP is to ?

- ☐ A) JT
- ☐ B) JS
- ☐ C) FP
- ☐ D) JU
- ☐ E) IT

---

65 JG is to KH as NO is to ?

- ☐ A) OO
- ☐ B) NO
- ☐ C) PO
- ☐ D) OP
- ☐ E) OQ

---

66 JS is to GP as WY is to ?

- ☐ A) TV
- ☐ B) TU
- ☐ C) SV
- ☐ D) WY
- ☐ E) UV

---

67 KH is to JJ as RI is to ?

- ☐ A) TH
- ☐ B) QL
- ☐ C) QJ
- ☐ D) KQ
- ☐ E) QK

---

68 XT is to VR as PI is to ?

- ☐ A) NG
- ☐ B) MG
- ☐ C) NH
- ☐ D) GN
- ☐ E) PI

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69 VJ is to YN as BL is to ?

- ☐ A) FO
- ☐ B) FP
- ☐ C) BL
- ☐ D) EP
- ☐ E) DP

---

70 ZQ is to XS as JR is to ?

- ☐ A) JR
- ☐ B) HT
- ☐ C) TH
- ☐ D) HU
- ☐ E) IT

---

71 EG is to HJ as KM is to ?

- ☐ A) MO
- ☐ B) NO
- ☐ C) NP
- ☐ D) OQ
- ☐ E) MP

---

72 KV is to NS as MT is to ?

- ☐ A) PQ
- ☐ B) JW
- ☐ C) QQ
- ☐ D) MT
- ☐ E) PR

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73 DV is to FX as PL is to ?

- ☐ A) RO
- ☐ B) NR
- ☐ C) RN
- ☐ D) PL
- ☐ E) SN

---

74 AC is to BD as QE is to ?

- ☐ A) SF
- ☐ B) RF
- ☐ C) QF
- ☐ D) RG
- ☐ E) RE

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Mark scheme · 3.10 Letter-Pair Analogies: Test Pack

Question 1

A) IJ - both letters shift forward 2 places, matching A+2=C and B+2=D **B1**

Answer: A) IJ

Question 2

A) YM - the first letter moves forward 1 place and the second letter stays the same, matching NR to OR; so XM becomes YM **B1**

Answer: A) YM

Question 3

D) RP - both letters move back 3 places, matching QY to NV; so US becomes RP **B1**

Answer: D) RP

Question 4

A) IK - the first letter moves forward 2 places and the second letter moves forward 3 places (A+2=C, B+3=E) **B1**

Answer: A) IK

Question 5

C) ID - the first letter moves back 4 places and the second letter moves back 3 places, matching WH to SE; so MG becomes ID **B1**

Answer: C) ID

Question 6

D) EH - both letters move forward 2 places, matching BP to DR; so CF becomes EH **B1**

Answer: D) EH

Question 7

E) XN - both letters move forward 3 places, matching RB to UE; so UK becomes XN **B1**

Answer: E) XN

Question 8

E) SL - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching AQ to ZJ; so HO becomes SL **B1**

Answer: E) SL

Question 9

B) AC - the first letter moves back 1 place and the second letter stays the same, matching IC to HC; so BC becomes AC **B1**

Answer: B) AC

Question 10

C) BK - the two letters swap places, matching TW to WT; so KB becomes BK **B1**

Answer: C) BK

Question 11

A) HL - both letters move forward 4 places, matching EJ to IN; so DH becomes HL **B1**

Answer: A) HL

Question 12

E) ZH - both letters move forward 1 place, matching VR to WS; so YG becomes ZH **B1**

Answer: E) ZH

Question 13

E) HL - the first letter moves forward 2 places and the second letter moves forward 5 places (C+2=E, D+5=I) **B1**

Answer: E) HL

Question 14

D) ZH - both letters move forward 3 places, matching RL to UO; so WE becomes ZH **B1**

Answer: D) ZH

Question 15

B) EY - the first letter moves forward 4 places and the second letter moves forward 2 places, matching IX to MZ; so AW becomes EY **B1**

Answer: B) EY

Question 16

A) FV - both letters move back 3 places, matching GZ to DW; so IY becomes FV **B1**

Answer: A) FV

Question 17

E) RJ - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching QC to JX; so IQ becomes RJ **B1**

Answer: E) RJ

Question 18

B) FP - the first letter moves back 4 places and the second letter moves forward 4 places, matching FN to BR; so JL becomes FP **B1**

Answer: B) FP

Question 19

D) BX - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching UY to FB; so YC becomes BX **B1**

Answer: D) BX

Question 20

E) VV - the first letter moves forward 5 places and the second letter moves forward 2 places, matching SA to XC; so QT becomes VV **B1**

Answer: E) VV

Question 21

E) QV - both letters move back 2 places, matching OT to MR; so SX becomes QV **B1**

Answer: E) QV

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Question 22

D) IG - the two letters simply swap places **B1**

Answer: D) IG

Question 23

D) UR - the two letters swap places, matching TJ to JT; so RU becomes UR **B1**

Answer: D) UR

Question 24

E) QS - both letters shift forward 4 places, matching D+4=H and G+4=K **B1**

Answer: E) QS

Question 25

D) ML - the first letter moves forward 2 places and the second letter moves back 3 places, matching UF to WC; so KO becomes ML **B1**

Answer: D) ML

Question 26

E) ZT - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching JK to QP; so AG becomes ZT **B1**

Answer: E) ZT

Question 27

E) ZM - both letters move forward 1 place, matching NH to OI; so YL becomes ZM **B1**

Answer: E) ZM

Question 28

D) QM - the first letter moves forward 5 places and the second letter stays the same, matching KD to PD; so LM becomes QM **B1**

Answer: D) QM

Question 29

B) WQ - both letters move forward 4 places, matching CT to GX; so SM becomes WQ **B1**

Answer: B) WQ

Question 30

A) XY - the two letters swap places, matching UP to PU; so YX becomes XY **B1**

Answer: A) XY

Question 31

E) MR - both letters move back 1 place, matching UH to TG; so NS becomes MR **B1**

Answer: E) MR

Question 32

E) KS - the first letter moves forward 4 places and the second letter moves back 2 places, matching DK to HI; so GU becomes KS **B1**

Answer: E) KS

Question 33

E) PW - both letters move forward 4 places, matching TC to XG; so LS becomes PW **B1**

Answer: E) PW

Question 34

E) JE - the first letter moves forward 2 places and the second letter moves forward 3 places, matching JR to LU; so HB becomes JE **B1**

Answer: E) JE

Question 35

B) QS - the first letter moves forward 1 place and the second letter moves forward 2 places, matching PK to QM; so PQ becomes QS **B1**

Answer: B) QS

Question 36

C) CD - both letters move back 2 places, matching WH to UF; so EF becomes CD **B1**

Answer: C) CD

Question 37

D) KI - both letters move forward 4 places, matching JQ to NU; so GE becomes KI **B1**

Answer: D) KI

Question 38

E) XG - both letters move forward 4 places, matching JL to NP; so TC becomes XG **B1**

Answer: E) XG

Question 39

D) AU - each letter is swapped for its mirror in the alphabet (A with Z, B with Y, and so on), matching BF to YU; so ZF becomes AU **B1**

Answer: D) AU

Question 40

E) EO - the letters swap places and each moves back 2 places, matching QW to UO; so QG becomes EO **B1**

Answer: E) EO

Question 41

C) TG - the first letter moves forward 4 places and the second letter stays the same, matching QV to UV; so PG becomes TG **B1**

Answer: C) TG

Question 42

A) TD - the first letter moves forward 5 places and the second letter moves back 4 places, matching RV to WR; so OH becomes TD **B1**

Answer: A) TD

Question 43

E) AK - the first letter moves back 3 places and the second letter moves forward 2 places, matching KV to HX; so DI becomes AK **B1**

Answer: E) AK

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Question 44

C) VJ - both letters move forward 2 places, matching NR to PT; so TH becomes VJ **B1**

Answer: C) VJ

Question 45

D) JS - both letters move forward 3 places, matching BD to EG; so GP becomes JS **B1**

Answer: D) JS

Question 46

E) AQ - the first letter moves back 4 places and the second letter moves forward 2 places, matching WB to SD; so EO becomes AQ **B1**

Answer: E) AQ

Question 47

E) UR - both letters move forward 1 place, matching CH to DI; so TQ becomes UR **B1**

Answer: E) UR

Question 48

B) OM - the first letter moves forward 3 places and the second letter moves forward 5 places, matching ND to QI; so LH becomes OM **B1**

Answer: B) OM

Question 49

E) ZN - the letters swap places and each moves forward 1 place, matching JR to SK; so MY becomes ZN **B1**

Answer: E) ZN

Question 50

A) FP - the letters swap places and each moves back 1 place, matching EL to KD; so QG becomes FP **B1**

Answer: A) FP

Question 51

C) TM - the first letter moves back 4 places and the second letter moves forward 4 places, matching YM to UQ; so XI becomes TM **B1**

Answer: C) TM

Question 52

D) ET - both letters move forward 2 places, matching DV to FX; so CR becomes ET **B1**

Answer: D) ET

Question 53

D) KV - the first letter moves back 1 place and the second letter moves forward 2 places, matching TN to SP; so LT becomes KV **B1**

Answer: D) KV

Question 54

A) XL - both letters move forward 1 place, matching BV to CW; so WK becomes XL **B1**

Answer: A) XL

Question 55

C) QC - both letters move back 1 place, matching CJ to BI; so RD becomes QC **B1**

Answer: C) QC

Question 56

D) XI - both letters move back 1 place, matching CD to BC; so YJ becomes XI **B1**

Answer: D) XI

Question 57

A) WX - the letters swap places and each moves forward 1 place, matching BW to XC; so WV becomes WX **B1**

Answer: A) WX

Question 58

D) IF - both letters move forward 4 places, matching CT to GX; so EB becomes IF **B1**

Answer: D) IF

Question 59

A) ZH - the letters swap places and each moves forward 2 places, matching UA to CW; so FX becomes ZH **B1**

Answer: A) ZH

Question 60

E) TM - the first letter moves forward 4 places and the second letter moves back 4 places, matching VK to ZG; so PQ becomes TM **B1**

Answer: E) TM

Question 61

C) RW - both letters move back 2 places, matching KI to IG; so TY becomes RW **B1**

Answer: C) RW

Question 62

D) SV - the letters swap places and each moves forward 2 places, matching OG to IQ; so TQ becomes SV **B1**

Answer: D) SV

Question 63

C) DC - the first letter moves back 4 places and the second letter moves back 3 places, matching SZ to OW; so HF becomes DC **B1**

Answer: C) DC

Question 64

A) JT - both letters move forward 4 places, matching IQ to MU; so FP becomes JT **B1**

Answer: A) JT

Question 65

D) OP - both letters move forward 1 place, matching JG to KH; so NO becomes OP **B1**

Answer: D) OP

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Question 66

A) TV - both letters move back 3 places, matching JS to GP; so WY becomes TV **B1**

Answer: A) TV

Question 67

E) QK - the first letter moves back 1 place and the second letter moves forward 2 places, matching KH to JJ; so RI becomes QK **B1**

Answer: E) QK

Question 68

A) NG - both letters move back 2 places, matching XT to VR; so PI becomes NG **B1**

Answer: A) NG

Question 69

D) EP - the first letter moves forward 3 places and the second letter moves forward 4 places, matching VJ to YN; so BL becomes EP **B1**

Answer: D) EP

Question 70

B) HT - the first letter moves back 2 places and the second letter moves forward 2 places, matching ZQ to XS; so JR becomes HT **B1**

Answer: B) HT

Question 71

C) NP - both letters shift forward 3 places, matching E+3=H and G+3=J **B1**

Answer: C) NP

Question 72

A) PQ - the first letter moves forward 3 places and the second letter moves back 3 places, matching KV to NS; so MT becomes PQ **B1**

Answer: A) PQ

Question 73

C) RN - both letters move forward 2 places, matching DV to FX; so PL becomes RN **B1**

Answer: C) RN

Question 74

B) RF - both letters move forward 1 place, matching AC to BD; so QE becomes RF **B1**

Answer: B) RF

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