

GRE Mathematics Practice Test 87

Advanced Practice

English edition / 66 multiple-choice questions

66

Questions

170

Minutes

A–E

One correct choice

Instructions

Choose exactly one answer for each question. Do not use a calculator. Begin timing at Question 1. Use the space provided or separate scratch paper. The answer key follows Question 66; no solutions are included.

Angles are measured in radians. Unless specified otherwise, logarithms are natural, $\mathbb{N} = \{1, 2, 3, \dots\}$, and distances in $\mathbb{R}^n$ are Euclidean. I_n denotes the $n \times n$ identity matrix. Graphs are finite and simple unless stated otherwise.

Difficulty target

A demanding practice form with frequent multi-step arguments and a mix of computational and conceptual questions. This is cycle 17 of 19, position 2 of 5; difficulty decreases within each cycle.

Difficulty labels are editorial targets, not ETS-equated ratings. No official scaled-score conversion is provided.

Coverage

Calculus / 33	Differential and integral calculus, sequences and series, several variables, vector calculus, and differential equations.
Algebra / 17	Elementary and linear algebra, groups, rings, fields, and number theory.
Additional / 16	Probability, statistics, analysis, topology, complex variables, discrete mathematics, and numerical methods.

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This series uses independently written question families and parameter variants. Related mathematical structures recur across forms; these are training forms, not 95 psychometrically independent official exams.

Scope reference: ETS, *GRE Mathematics Test Practice Book*, ETS official practice-book PDF. Questions are not taken from that book. This booklet is not published or endorsed by ETS.

Questions 1–3

1. For which positive integer m does $\sum_{j=2}^{\infty} \frac{(-1)^j(x-18)^j}{j^{\frac{4}{3}}(\log j)^m}$ converge absolutely at $x = 17$? Give the least such m , or 0 if none exists.

- (A) 1
- (B) 3
- (C) 4
- (D) 0
- (E) 2

2. For real t , let $M(t) = \begin{pmatrix} t-83 & 11 & 0 \\ 0 & t-83 & 1 \\ 0 & 0 & t-83 \end{pmatrix}$. At $t = 83$, what is $\dim \ker(M(t)^2) - \dim \ker M(t)$?

- (A) 3
- (B) 1
- (C) 0
- (D) 2
- (E) 4

3. A lamina occupies $0 \leq x \leq 1$, $0 \leq y \leq 18x$ and has density $\rho(x, y) = x^3y$. Find its centroid coordinate $\bar{x}$.

- (A) $\frac{3}{7}$
- (B) $-\frac{6}{7}$
- (C) $\frac{6}{7}$
- (D) $\frac{12}{7}$
- (E) $\frac{13}{7}$

Questions 4–6

4. $X_1, \dots, X_{34}$ are independent with common mean and variance 36. With $\bar{X}$ their sample mean, find $E[\sum_i (X_i - \bar{X})^2]$.

- (A) 1980
- (B) 792
- (C) 1584
- (D) 1188
- (E) 396

5. Evaluate $\lim_{x \rightarrow 0} \frac{(1 + 18x)^{1/(4x)} - e^{18/4}}{x}$.

- (A) $\frac{81e^{\frac{9}{2}}}{2}$
- (B) $e^{\frac{9}{2}}$
- (C) $-\frac{9e^{\frac{9}{2}}}{4}$
- (D) $-\frac{81e^{\frac{9}{2}}}{2}$
- (E) $-81e^{\frac{9}{2}}$

6. Let $u = (17, 5)^T$ and $v = (1, 0)^T$. Find the squared distance from $(17, 0)^T$ to $\text{span}(u)$.

- (A) $\frac{3691}{157}$
- (B) $\frac{3534}{157}$
- (C) $\frac{7539}{314}$
- (D) $\frac{7225}{314}$
- (E) $\frac{6911}{314}$

Questions 7–9

7. For $\mathbf{F} = (18x^5y, y^5z, xz^5)$, find $\nabla \cdot \mathbf{F}$ at $(1, 2, 1)$.

- (A) -265
- (B) 265
- (C) 530
- (D) 266
- (E) $\frac{265}{2}$

8. A permutation of 36 objects is chosen uniformly. Let Z be the number of fixed points. Find $E[Z^2]$.

- (A) 2
- (B) 1
- (C) 0
- (D) 3
- (E) 4

9. For $x > 0$, $x^2y'' + (1 - 23)xy' + 90y = 0$, $y(1) = 0$, $y'(1) = 18$. Find $y(e)$.

- (A) $-\frac{18(1 - e^{13})e^5}{13}$
- (B) $\frac{e^{18}}{23}$
- (C) $e^5 + e^{18}$
- (D) $-e^5 + e^{18}$
- (E) $\frac{18(1 - e^{13})e^5}{13}$

Questions 10–12

10. An idempotent 89×89 real matrix P has rank 4. What is $\det(I + P)$?

- (A) 17
- (B) 16
- (C) 18
- (D) 14
- (E) 15

11. Let $f(x) = \log(1 + 18x)$. Find $f^{(5)}(0)$.

- (A) $5 \left((-1)^4 4! 18^5 \right)$
- (B) $-(-1)^4 4! 18^5$
- (C) $\frac{1}{18} \left((-1)^4 4! 18^5 \right)$
- (D) $\frac{1}{5} \left((-1)^4 4! 18^5 \right)$
- (E) $(-1)^4 4! 18^5$

12. A coin success probability p has uniform prior on $[0, 1]$. After observing 34 successes and 2 failures in independent tosses conditional on p , what is the predictive probability of success on the next toss?

- (A) $\frac{73}{76}$
- (B) $\frac{35}{114}$
- (C) $\frac{35}{38}$
- (D) $\frac{35}{76}$
- (E) $\frac{3}{38}$

Questions 13–15

13. Evaluate $\int_C (5x^4 + 18y) dx + (18x + 5y^4) dy$, where C is $r(t) = (t, 3t^2)$, $0 \leq t \leq 1$.

- (A) 299
- (B) 596
- (C) 149
- (D) 298
- (E) -298

14. For $A = \begin{bmatrix} 1 & 0 \\ 1 & 1 \\ 1 & 2 \end{bmatrix}$ and $b = \begin{bmatrix} 83 \\ 11 \\ 94 \end{bmatrix}$, let x minimize $\|Ax - b\|^2$. Find the minimum squared residual.

- (A) $\frac{12011}{3}$
- (B) $\frac{12014}{3}$
- (C) $\frac{24025}{6}$
- (D) $\frac{24019}{6}$
- (E) $\frac{24031}{6}$

15. Find the coefficient of x^4 in $e^{4x} \log(1 + 18x)$.

- (A) -26244
- (B) -19572
- (C) 19572
- (D) -469728
- (E) -19554

Questions 16–18

16. A random variable has mean 0 and variance 34. What upper bound does the Chebyshev inequality give for $P(|X| \geq 68)$?

- (A) $\frac{1}{272}$
- (B) $\frac{1}{408}$
- (C) $\frac{1}{136}$
- (D) $\frac{137}{272}$
- (E) $\frac{135}{136}$

17. If $f(x, y) = \log(x^2 + y^2)$, $x = e^{18t} \cos(5t)$, and $y = e^{18t} \sin(5t)$, find d^2f/dt^2 at $t = 1$.

- (A) 36
- (B) 698
- (C) 1296
- (D) 10
- (E) 0

18. What is the coefficient of x^7 in $(x + 17)^7(1 - x)^3$?

- (A) -154103
- (B) -154104
- (C) -154106
- (D) -154105
- (E) -154102

Questions 19–21

19. Evaluate $\int_0^1 x^{17}(\log x)^4 dx$.

- (A) $4374 \left(\frac{(-1)^4 4!}{18^5} \right)$
- (B) $-\frac{(-1)^4 4!}{18^5}$
- (C) $\frac{1}{5} \left(\frac{(-1)^4 4!}{18^5} \right)$
- (D) $18 \left(\frac{(-1)^4 4!}{18^5} \right)$
- (E) $\frac{(-1)^4 4!}{18^5}$

20. A box is chosen uniformly from two boxes. Box A contains 39 red and 41 blue balls; box B contains 41 red and 39 blue balls. Two balls are drawn without replacement and both are red. What is the conditional probability that A was chosen?

- (A) $\frac{820}{1561}$
- (B) $\frac{741}{1561}$
- (C) $\frac{1151}{1561}$
- (D) $\frac{247}{1561}$
- (E) $\frac{741}{3122}$

21. Find the upward flux of $\mathbf{F} = (x, y, z)$ through $z = 18x^2 + 5y^2$, $0 \leq x, y \leq 1$.

- (A) $-\frac{20}{3}$
- (B) $-\frac{46}{3}$
- (C) $\frac{23}{3}$
- (D) $-\frac{23}{6}$
- (E) $-\frac{23}{3}$

Questions 22–24

22. A matrix A satisfies $(A - 84I)(A - 86I) = 0$, and its minimal polynomial has degree two. If $A^5 = uA + vI$, find u .

- (A) $2^4 \cdot 151 \cdot 108061$
- (B) $2^4 \cdot 3 \cdot 151 \cdot 108061$
- (C) $2^3 \cdot 151 \cdot 108061$
- (D) $2^4 \cdot 5 \cdot 151 \cdot 108061$
- (E) $2^5 \cdot 151 \cdot 108061$

23. Evaluate $\int_0^1 x^{18}(1-x)^4 dx$.

- (A) $19 \left(\frac{18! 4!}{23!} \right)$
- (B) $23 \left(\frac{18! 4!}{23!} \right)$
- (C) $\frac{18! 4!}{23!}$
- (D) $1771 \left(\frac{18! 4!}{23!} \right)$
- (E) $\frac{1}{5} \left(\frac{18! 4!}{23!} \right)$

24. Which subset of $\mathbb{R}$ is compact, with 29 fixed as displayed?

- (A) $(0, 29)$
- (B) $29\mathbb{Z}$
- (C) $\{29/k : k \geq 1\}$
- (D) $\{0\} \cup \{29/k : k \geq 1\}$
- (E) $\mathbb{Q} \cap [0, 29]$

Questions 25–27

25. If $y'' + 25y = 18$ and $y(0) = y'(0) = 0$, find $y(\pi/5)$.

- (A) $-\frac{36}{25}$
- (B) $\frac{61}{25}$
- (C) $\frac{72}{25}$
- (D) $\frac{18}{25}$
- (E) $\frac{36}{25}$

26. Let $V = \begin{bmatrix} 1 & 83 & 6889 \\ 1 & 85 & 7225 \\ 1 & 88 & 7744 \end{bmatrix}$. Find $\det(V^T V)$.

- (A) 899
- (B) 898
- (C) 900
- (D) 902
- (E) 901

27. For $f(x) = x^5 e^{18x}$, find $f^{(7)}(0)$.

- (A) $\frac{1}{9} \left(\frac{7! 18^2}{2} \right)$
- (B) $\frac{7! 18^2}{2}$
- (C) $\frac{1}{42} \left(\frac{7! 18^2}{2} \right)$
- (D) $\frac{1}{2520} \left(\frac{7! 18^2}{2} \right)$
- (E) $2 \left(\frac{7! 18^2}{2} \right)$

Questions 28–30

28. For $a_k = (-1)^k + 29/k$, find $\limsup_{k \rightarrow \infty} a_k - \liminf_{k \rightarrow \infty} a_k$.

- (A) 4
- (B) 0
- (C) 1
- (D) 2
- (E) 3

29. For $D = \{(x, y) : x^2 + y^2 \leq 18\}$, evaluate $\iint_D (x^2 + y^2)^4 dA$.

- (A) 209952π
- (B) $\frac{3779136\pi}{5}$
- (C) $\frac{1889568\pi}{5}$
- (D) $\frac{104976\pi}{5}$
- (E) 1889568π

30. Let $u = (1, 2, \dots, 89)^T$, $v = (1, 1, \dots, 1)^T$, and $B = I + uv^T$. Find $v^T B^{-1}u$.

- (A) $\frac{5007}{2003}$
- (B) $\frac{8011}{4006}$
- (C) $\frac{3004}{2003}$
- (D) $\frac{4005}{4006}$
- (E) $\frac{1001}{2003}$

Questions 31–33

31. Let $F(x) = \int_0^{x^5} e^{18t} dt$. Find $F'(1)$.

- (A) e^{90}
- (B) e^{18}
- (C) $5e^{18}$
- (D) $90e^{18}$
- (E) $\frac{e^{18}}{5}$

32. For which real a is $f(x) = x^a$ in $L^{29}(0, 1)$?

- (A) $a > -1/29$
- (B) $a > 0$
- (C) $a < 1/29$
- (D) All real a
- (E) $a \geq -1/29$

33. For the curve $x = t^5$, $y = t^6 + 18t$, find d^2y/dx^2 at $t = 1$.

- (A) $-\frac{66}{25}$
- (B) $-\frac{18}{5}$
- (C) $\frac{24}{5}$
- (D) $-\frac{66}{5}$
- (E) $\frac{78}{25}$

Questions 34–36

34. Let $D = \text{diag}(\underbrace{1, \dots, 1}_{16}, \underbrace{2, \dots, 2}_{73})$. Find the dimension of the space of real matrices X with $XD = DX$.

- (A) 5586
- (B) 5587
- (C) 5584
- (D) 5583
- (E) 5585

35. Evaluate $\int_0^1 \int_0^x x^{18} y^5 dy dx$.

- (A) $\frac{1}{114}$
- (B) $\frac{1}{175}$
- (C) $\frac{1}{150}$
- (D) $\frac{1}{144}$
- (E) $\frac{1}{25}$

36. A map $T : \mathbb{R} \rightarrow \mathbb{R}$ satisfies $|T(x) - T(y)| \leq |x - y|/29$. If $T(x_*) = x_*$ and $|x_0 - x_*| \leq 1$, what is the smallest guaranteed upper bound for $|T^3(x_0) - x_*|$?

- (A) $\frac{1}{24389}$
- (B) $\frac{12195}{24389}$
- (C) $\frac{1}{73167}$
- (D) $\frac{24388}{24389}$
- (E) $\frac{1}{48778}$

Questions 37–39

37. Solve $y' + 18y = x^5e^{-18x}$, $y(0) = 0$, and find $y(1)$.

- (A) e^{-18}
- (B) $\frac{1}{6e^{18}}$
- (C) $\frac{3}{e^{18}}$
- (D) $\frac{e^{18}}{6}$
- (E) $\frac{1}{5e^{18}}$

38. When $x^3 + 1$ is divided by $(x - 84)(x - 85)$, the remainder is $ux + v$. Find u .

- (A) 21419
- (B) 21420
- (C) 21423
- (D) 21421
- (E) 21422

39. If $y'' - 36y' + 324y = 5e^{18x}$ and $y(0) = y'(0) = 0$, find $y(1)$.

- (A) $5e^{18}$
- (B) $-\frac{5e^{18}}{2}$
- (C) $1 + \frac{5e^{18}}{2}$
- (D) $\frac{5e^{18}}{4}$
- (E) $\frac{5e^{18}}{2}$

Questions 40–42

40. The circle $|z| = 2$ is traversed counterclockwise. What is $\frac{1}{2\pi i} \int_{|z|=2} \frac{e^z}{z^{25}} dz$?

- (A) $1/23!$
- (B) $1/48!$
- (C) $1/24!$
- (D) $1/25!$
- (E) $24!$

41. For $f(x, y) = x^2 + 18xy + 5y^2$, what is its maximum directional derivative at $(1, -1)$?

- (A) 8
- (B) 320
- (C) -16
- (D) 24
- (E) $8\sqrt{5}$

42. A permutation consists of disjoint cycles of lengths 7 and 5, together with a disjoint transposition when the sum of these two lengths is odd. It fixes all other points. What is its order?

- (A) 33
- (B) 36
- (C) 35
- (D) 37
- (E) 34

Questions 43–45

43. Let C be the unit circle $x^2 + y^2 = 1$, $z = 5$, counterclockwise viewed from above. Evaluate $\int_C -18y(x^2 + y^2)^4 dx + (18x(x^2 + y^2)^4) dy + 3z dz$.

- (A) -36π
- (B) 36π
- (C) 18π
- (D) $1 + 36\pi$
- (E) 72π

44. Find the residue of $z^{24}/(z - 1)^3$ at $z = 1$.

- (A) 460
- (B) 276
- (C) 184
- (D) 368
- (E) 92

45. What is the maximum of $x^5 y^{18}$ over $x, y \geq 0$ subject to $x + y = 1$?

- (A) $\left(\frac{5}{23}\right)^5 \left(\frac{18}{23}\right)^{18}$
- (B) $23 \left(\left(\frac{5}{23}\right)^5 \left(\frac{18}{23}\right)^{18} \right)$
- (C) $\left(\frac{5}{23}\right)^{18} \left(\frac{18}{23}\right)^5$
- (D) $\frac{90}{529}$
- (E) $\frac{1}{2^{23}}$

Questions 46–48

46. In $R = \mathbb{F}_7[x]/(x^{18})$, how many elements are units?

- (A) $7^{20} - 7^{19}$
- (B) $7^{19} - 7^{17}$
- (C) $7^{18} - 7^0$
- (D) $7^{19} - 7^{18}$
- (E) $7^{18} - 7^{17}$

47. Find the curvature of the helix $r(t) = (18 \cos t, 18 \sin t, 5t)$.

- (A) $\frac{18}{349}$
- (B) $-\frac{18}{349}$
- (C) $\frac{367}{349}$
- (D) $\frac{9}{349}$
- (E) $\frac{36}{349}$

48. What is the least positive multiplicative inverse of 2 modulo 69?

- (A) 13
- (B) 24
- (C) 35
- (D) 57
- (E) 46

Questions 49–51

49. The region $0 \leq x \leq 1$, $0 \leq y \leq 18x^5$ is revolved about the line $x = -3$. Find its volume.
- (A) $\frac{81\pi}{7}$
(B) $-\frac{162\pi}{7}$
(C) $\frac{324\pi}{7}$
(D) $\frac{162\pi}{7}$
(E) $1 + \frac{162\pi}{7}$
50. Integers x satisfy $x \equiv 3 \pmod{5}$ and $x \equiv 1 \pmod{8}$. Find the sum of all such x with $0 \leq x < 80$.
- (A) 108
(B) 107
(C) 106
(D) 104
(E) 105
51. Two solutions of $y'' + 18x^5y' + 5y = 0$ have Wronskian $W(0) = 1$. Find $W(1)$.
- (A) $\frac{2}{e^3}$
(B) $\frac{1}{2e^3}$
(C) $-\frac{1}{e^3}$
(D) $e^{-3} + 1$
(E) e^{-3}

Questions 52–54

52. How many truth assignments to $p, q, r_1, \dots, r_{32}$ make $p \Rightarrow q$ false?

- (A) 2^{34}
- (B) 2^{31}
- (C) 2^{33}
- (D) 2^{32}
- (E) 2^{35}

53. Let C be $x^2/25 + y^2 = 1$, oriented counterclockwise. Evaluate $\int_C (-6y^3) dx + \left(\frac{x^3}{3}\right) dy$.

- (A) $1 + \frac{215\pi}{4}$
- (B) $\frac{215\pi}{4}$
- (C) $\frac{215\pi}{8}$
- (D) $\frac{215\pi}{2}$
- (E) $-\frac{215\pi}{4}$

54. The symmetric group S_{89} acts on the two-element subsets of $\{1, \dots, 89\}$. What is the index of the setwise stabilizer of $\{1, 2\}$?

- (A) 3917
- (B) 3914
- (C) 3918
- (D) 3915
- (E) 3916

Questions 55–57

55. Evaluate $\int_0^{\log 2} e^x (e^x + 18)^5 dx$.

- (A) $6 \left(\frac{20^6 - 19^6}{6} \right)$
- (B) $20^5 - 19^5$
- (C) $\frac{20^6}{6}$
- (D) $\frac{20^6 - 19^6}{6}$
- (E) $-\frac{20^6 - 19^6}{6}$

56. Find the coefficient of x^3 in $(1 + x)^{34}(1 - x)^{34}(1 + 2x)^2$.

- (A) -136
- (B) -46
- (C) -181
- (D) -91
- (E) -226

57. For $T = \{x, y, z \geq 0 : x + y + z \leq 1\}$, evaluate $\iiint_T x^{18} y^4 dV$.

- (A) $\frac{1}{95}$
- (B) $\frac{18! 4!}{25!}$
- (C) $6 \left(\frac{18! 4!}{25!} \right)$
- (D) $\frac{1}{6} \left(\frac{18! 4!}{25!} \right)$
- (E) $25 \left(\frac{18! 4!}{25!} \right)$

Questions 58–60

58. In $\mathbb{Z}/2742\mathbb{Z}$, how many residues are not idempotent ($x^2 \neq x$)?

- (A) 2736
- (B) 2735
- (C) 2733
- (D) 2734
- (E) 2732

59. Evaluate $\lim_{x \rightarrow 0} \frac{e^{18x} - \sum_{j=0}^4 (18x)^j / j!}{x^5}$.

- (A) $5 \left(\frac{18^5}{5!} \right)$
- (B) $\frac{18^5}{5!}$
- (C) $120 \left(\frac{18^5}{5!} \right)$
- (D) $-\frac{18^5}{5!}$
- (E) $\frac{1}{18} \left(\frac{18^5}{5!} \right)$

60. How many edges does the complete bipartite graph $K_{34,36}$ have?

- (A) 1224
- (B) 816
- (C) 1632
- (D) 408
- (E) 2040

Questions 61–63

61. The local inverse $y(x)$ of $x = 18y + y^3$ satisfies $y(0) = 0$. Find $y^{(5)}(0)$.

- (A) $\frac{360}{18^7}$
- (B) $\frac{1}{120} \left(\frac{360}{18^7} \right)$
- (C) $-\frac{360}{18^7}$
- (D) $\frac{1}{18} \left(\frac{360}{18^7} \right)$
- (E) $18 \left(\frac{360}{18^7} \right)$

62. In the additive group $\mathbb{Z}/126\mathbb{Z}$, find the index of the subgroup generated by $[3]$.

- (A) 3
- (B) 5
- (C) 4
- (D) 1
- (E) 2

63. Evaluate $\iiint_{x^2+y^2+z^2 \leq 18} (x^2 + y^2 + z^2)^4 dV$.

- (A) $\frac{1}{2} \left(\frac{4\pi 18^{\frac{11}{2}}}{11} \right)$
- (B) $\frac{1}{3} \left(\frac{4\pi 18^{\frac{11}{2}}}{11} \right)$
- (C) $11 \left(\frac{4\pi 18^{\frac{11}{2}}}{11} \right)$
- (D) $\frac{4\pi 18^{\frac{11}{2}}}{11}$
- (E) $\frac{11}{162} \left(\frac{4\pi 18^{\frac{11}{2}}}{11} \right)$

Questions 64–66

64. How many functions from a set of 39 elements onto a set of 3 elements exist?

- (A) 3^{39}
- (B) $3^{39} - 3(2^{39}) + 3$
- (C) $3^{39} - 3(2^{39})$
- (D) $3^{39} - 3(2^{39}) - 3$
- (E) $3^{39} - 2^{39}$

65. What is the radius of convergence about zero of $\sum_{j=1}^{\infty} \frac{(18j)!}{(j!)^{18}} x^{5j}$?

- (A) $18^{\frac{18}{5}}$
- (B) $18^{-\frac{5}{18}}$
- (C) $\frac{1}{18}$
- (D) 18^{-18}
- (E) $18^{-\frac{18}{5}}$

66. How many invertible 3×3 matrices over $\mathbb{F}_{59}$ are there whose first column is $(1, 0, 0)^T$?

- (A) $\frac{(59^3 - 59^0)(59^3 - 59^0)(59^3 - 59^0)}{59^3 - 1}$
- (B) $\frac{59^3 59^3 59^3}{59^3 - 1}$
- (C) $\frac{(59^3 - 59^0)(59^3 - 59^1)}{59^3 - 1}$
- (D) $\frac{(59^3 - 59^1)(59^3 - 59^2)(59^3 - 59^3)}{59^3 - 1}$
- (E) $\frac{(59^3 - 59^0)(59^3 - 59^1)(59^3 - 59^2)}{59^3 - 1}$

Answer Key

Practice Test 87 / Questions 1–66

Question	Answer	Question	Answer	Question	Answer
1	A	23	C	45	A
2	B	24	D	46	E
3	C	25	E	47	A
4	D	26	C	48	C
5	D	27	B	49	D
6	D	28	D	50	C
7	B	29	C	51	E
8	A	30	D	52	D
9	A	31	C	53	B
10	B	32	A	54	E
11	E	33	A	55	D
12	C	34	E	56	A
13	D	35	C	57	B
14	C	36	A	58	D
15	B	37	B	59	B
16	C	38	D	60	A
17	E	39	E	61	A
18	B	40	C	62	A
19	E	41	E	63	D
20	B	42	C	64	B
21	E	43	B	65	E
22	A	44	B	66	E

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