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Answer all the questions (Tick the appropriate answer in the answer sheet)

- 1 In the sequence $a, b, c, d, 0, 1, 1, 2, 3, 5, 8$ each term is the sum of the two terms to its left. Find a
 a) -3 b) -1 c) 0 d) 1
- 2 Which of the following equations have the same graph?
 I. $y = x - 2$ II. $y = \frac{x^2+4}{x-2}$ III. $(x + 2)y = x^2 + 4$
 a) I and II only b) I and III only c) II and III only d) None(All the equations have different graph)
- 3 A sequence is defined by the recurrence relation $u_{n+1} = 3u_n - 4, u_0 = -1$. What is the value of u_2 ?
 a) -25 b) - 10 c) - 4 d) -1
- 4 Manoj starts from point P and walks towards south and stops at point Q. He now takes a right turn and then a left turn and stops at R. He finally takes a left turn and stops at S. If he walks 5Km before taking each turn, towards which direction will Manoj have to walk from point S to reach point Q.
 a)Northeast b) North c) South d) East
- 5 If $\cos 32^\circ = m$ and $\cos x = 2m^2 - 1$; α, β are the values of x between 0° and 360° then
 a) $\alpha + \beta = 180^\circ$ b) $\beta - \alpha = 200^\circ$
 c) $\beta = 4\alpha + 40^\circ$ d) $\beta = 5\alpha - 20^\circ$
- 6 If $\log_3 t = 2 + \log_3$, what is the value of t ?
 a) 7 b) 25 c) 10 d) 45
- 7 Functions f and g are given by $f(x) = 2x - 3$ and $g(x) = x^2$. Find an expression for $g(f(x))$.
 a) $g(f(x)) = 4x^2 - 12x + 9$ b) $g(f(x)) = x^2 + 2x - 3$
 c) $g(f(x)) = 4x - 9$ d) $g(f(x)) = 2x^3 - 3x^2$
- 8 The number of real solution to the equation $\frac{x}{100} = \sin x$ is
 a)61 b) 62 c) 63 d) 64
- 9 The result “let $(-1,1)$ be interval of convergence for the power series $\sum_{n=0}^{\infty} a_n x^n$. If $\sum_{n=0}^{\infty} a_n = S$, then $\lim_{x \rightarrow -1-0} \sum_{n=0}^{\infty} a_n x^n = S^n$ is known as
 a) uniqueness theorem b) weierstrass’s theorem
 c) Tauber’s theorem d) Abel’s theorem
- 10 The function $D: R \rightarrow R$ such that $D(x) = \begin{cases} 1, & \text{if } x \in Q \\ 0, & \text{if } x \notin Q \end{cases}$ is known as
 a) step function b) simple function
 c) characteristics function d) dirichlets function
- 11 15% of 1080 is
 a) 161.20 b) 162 c) 322.40 d) 3224

- 12 0.35% expressed as a decimal, is equal to
 a) 0.35 b) 0.035 c) 0.0035 d) 3.5
- 13 For $0 \leq p \leq 1$ the series $\sum_{n=1}^{\infty} \frac{(-1)^n}{n^p}$ is
 a) convergent but not absolute b) convergent
 c) absolutely convergent d) oscillatory
- 14 In terms of powers of prime numbers, 1260 can be written as
 a) $2^2 \times 3 \times 5^2$ b) $2^2 \times 3^2 \times 5 \times 7$ c) $2 \times 3^2 \times 5^2 \times 7$ d) $3 \times 2^2 \times 7^2 \times 5$
- 15 Suppose hops, skips, and jumps are specific units of length. If b hops equals c skips, d jumps equals e hops, and f jumps equals g meters, then one meter equals how many skips?
 a) $\frac{bdg}{cef}$ b) $\frac{cdf}{beg}$ c) $\frac{cdg}{bef}$ d) $\frac{cef}{bdg}$

- 16 A calculator has a key which replaces the displayed entry with its square, and another key which replaces the displayed entry with its reciprocal. Let y be the final result if one starts with an entry $x \neq 0$ and alternately squares and reciprocates n times. Assuming the calculator is completely accurate (e.g. no roundoff or overflow) then y equals

- a) $x^{((-2)^n)}$ b) x^{2n} c) x^{-2n} d) $x^{-(2^n)}$

- 17 The following four statements, and only these are found on a card:

On this card exactly one statement is false.

On this card exactly two statements are false.

On this card exactly three statements are false.

On this card exactly four statements are false.

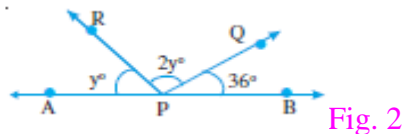
Assume each statement is either true or false. Among them the number of false statements is exactly

- a) 0 b) 1 c) 2 d) 3

- 18 The product of $(2x - 3)$ and $(2x + 3)$ is :

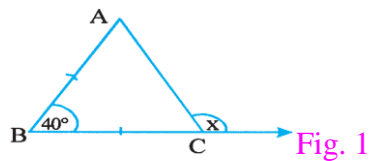
- a) $2x^2 - 3$ b) $4x^2 - 3$ c) $4x^2 - 9$ d) $4x^2 + 9$

- 19 In Fig. 2, if $\angle BPQ = 36^\circ$, then y equals



- a) 36° b) 72° c) 46° d) 48°

- 20 In Fig. 1, ABC is a triangle in which



$AB = BC$ and $\angle B = 40^\circ$, then x equals :

- a) 110° b) 120° c) 140° d) 70°

- 21 A two digit number is such that the product of its digits is 12. When 36 is added to the number, the digits interchange their places. Find the number.

- a) 27 b) 28 c) 14 d) 26

- 22 Find the radius of a sphere whose surface area is 616 cm^2 .
 a) 7 b) 3 c) 4 d) 8
- 23 The value of $\tan 1^\circ \cdot \tan 89^\circ$ is :
 a) $\frac{1}{2}$ b) $\frac{3}{2}$ c) 1 d) $\frac{1}{\sqrt{3}}$
- 24 In what time will Rs. 2700 yield the same simple interest at 4% per annum as Rs. 2250 in 4 years at 3% per annum?
 a) $2\frac{1}{2}$ b) $2\frac{3}{2}$ c) 2 d) $4\frac{1}{3}$
- 25 Find the median of the data, 2, 1, 5, 7, 1.
 1 b) 2 c) 1.5 d) 2.5
- 26 In a frequency distribution, the class mark of a class is 10 and its width is 5. The lower limit of class is
 a) 5 b) 7.5 c) 10 d) 12.5
- 27 If $\sin\theta = \frac{a}{b}$ then $\cos\theta$ equals:
 a). $\frac{\sqrt{b^2-a^2}}{b}$ b). $\frac{\sqrt{a^2-b^2}}{b}$ c). $\frac{b}{\sqrt{b^2-a^2}}$ d). $\frac{1}{\sqrt{3}}$
- 28 Evaluate: $\cos 43^\circ \cdot \cot 79^\circ - \sin 47^\circ \cdot \tan 11^\circ$
 a) 1 b) 0 c) 2 d) infinity
- 29 If the digit of the number 26839514 are arranged in descending order, the position of how many digits will remain unchanged
 a) Two b) four c) none d) three
- 30 In a row of twenty students, R is fifth from the right end and T is fourth from the left end. How many students are there between R and T in the row?
 a) 11 b) 10 c) 13 d) 12
- 31 M/M/3/N, queue description states the number of servers and buffer capacity as
 a) 3 and M b) M and 3 c) 3 and N d) None of these
- 32 There are N inventories in the system, one by one all the inventories are consumed with replacing the inventories. This process is stated as
 a) The pure death process b) The pure birth process
 c) The birth-death process d) none of these
- 33 Every distributive lattice is
 a) Modular b) lattice c) distributive lattice d) isotony
- 34 If 'n' is an integer and $3n + 2$ is odd then 'n' is
 a) odd b) even c) either odd or even d) neither even nor odd
- 35 If the primal has unbounded solution then the dual has
 a) Infeasible solution b) no solution c) many solution d) infinite solution
- 36 A constraint of \leq type is changed to equality by adding a
 a) Slack variable b) surplus variable c) basic variable d) non basic variable
- 37 The set of all feasible solutions to an LPP is a
 a) Convex set b) concave set c) degeneracy set d) non degeneracy set

- 38 What is the minimum number of students required in a discrete mathematics class to be sure that at least six will receive the same grade, if there are five possible grades, A, B, C, D and F?
 a) 26 b) 36 c) 20 d) 16
- 39 Every subgroup of a cyclic group is
 a) Cyclic b) subgroup c) abelian group d) normal subgroup
- 40 A simple graph is connected iff it has
 a) Spanning tree b) tree c) circuit d) square
- 41 The statement “The next arrival of a customer is independent of previous arrival of customer” stated as
 a) Memory less property b) Memorable property c) storage property d) None of these
- 42 Under the exponential assumption the probability that an event occur in sufficient small interval is
 a) greater than one b) less than one c) equal to one d) None of these
- 43 In the EOQ model
 a) Order arrive in a batch b) Demand is known and occurs at a constant rate
 c) All demand must be satisfied d) All of the above
- 44 Under Memory less property assumption, the arrival of the customer is independent of
 a) Previous arrival b) Future arrival c) State of arrival d) None of these
- 45 A manufacturer has to supply 12000 units of a product per year to his customer. Shortages are not permitted and there is no lead time. The inventory holding cost is Rs. 0.20 per unit per month and the setup cost per run is Rs. 350. The economic lot size is
 a) 1870 b) 1860 c) 1890 d) 1880
- 46 In a carwash station cars arrive for service according to Poisson distribution, with mean 4 per hr. The average service time of a car is 10 min. The probability that an arriving car has to wait is
 a) $\frac{2}{3}$ b) $\frac{1}{3}$ c) $\frac{4}{6}$ d) $\frac{1}{2}$
- 47 All of the following may be used to find the EOQ except
 a) Optimal number of days supply to order
 b) Number of orders which minimize ordering costs
 c) Optimal number of rupees per order
 d) optimal number of orders per year
- 48 The mean and variance of the poisson distribution are
 a) equal b) mean > variance c) mean < variance d) None of these
- 49 For M/M/1 model the expected number of busy servers are equal to
 a) Traffic intensity ρ b) Arrival rate λ c) Service rate μ d) None of these
- 50 In queuing description M/M/1 the arrival and departure distribution are
 a) Both Markovian b) Binomial c) General d) None of these
- 51 Laplace transform of tant doesn't exist because
 a) It has finite number of discontinuous points

- b) It has finite number of continuous points
 c) It has an infinite number of continuous points
 d) It has an infinite number of discontinuous points
- 52 The complementary function of $x^2 y'' - 2xy' + 2y = 0$ is
 a) $A + Bx$ b) $Ax + Bx^2$ c) $Ax^2 + Bx + C$ d) $Ax + B$
- 53 If H_1 & H_2 are subgroups of a group G then $H_1.H_2 = \{h_1h_2 \in G \mid h_1 \in H_1, h_2 \in H_2\}$ is a subgroup of G .
 a) True b) false c) Not a subgroup d) none of the above
- 54 The following inequality is correct
 a) $P(A \cap B) \leq P(A) + P(B)$ b) $P(A \cap B) \geq P(A) + P(B)$
 c) $P(A \cap B) = 0$ d) $P(A \cap B) = P(A) + P(B)$
- 55 If A and B are independent events then
 a) $P(A/B) = P(A).P(B)$ b) $P(A/B) = P(B)$ c) $P(A/B) = P(A)$ d) None of these
- 56 The cost matrix in a assignment problem is a
 a) Square matrix b) Rectangle matrix c) Diagonal matrix d) None of these
- 57 'A' can hit a target in 4 out of 5 shots and 'B' can hit the target in 5 out of 6 shots. The target being hit when both try is
 a) $29/30$ b) $9/30$ c) $12/30$ d) $7/30$
- 58 The probability distribution function always satisfies the probability postulates
 a) Always true b) Partially true c) Always false d) Partially false
- 59 If n is not a multiple of 23 then the remainder when n^{11} is divided by 23 is $1 \pmod{23}$
 a) True b) false c) statement is incorrect d) none of the above
- 60 The probability of occurrence of any event
 a) more than 1 b) more than 0 c) less than 1 d) 0 and less than or equal to 1
- 61 The mobius transform takes
 a) Circle in to line b) Circle to Circle c) Circle into square d) None of these
- 62 Bender Smidth formula is valid only when
 a) $k = \frac{a}{2} h^2$ b) $h = \frac{a}{2} k^2$ c) $k = \frac{h}{2} a^2$ d) $k = \frac{a}{2} h$
- 63 In the definition of Fourier transform $F(s) = \frac{1}{\sqrt{2\pi}} \int_0^{\infty} f(x) e^{isx} dx$, the kernel is
 a) $f(x)e^{isx}$ b) e^{isx} c) $\frac{1}{\sqrt{2\pi}} e^{isx}$ d) $\frac{1}{\sqrt{2\pi}}$
- 64 Numerical solution of first order differential equation using Milne predictor Corrector formula requires.....prior values of the dependent variable
 a) 5 b) 4 c) 3 d) 1

- 65 The Simpsons three eighth rule is applicable if
- number of subintervals must be even
 - number of subintervals must be odd
 - number of subintervals is a multiples of 3
 - number of subintervals is a multiples 8
- 66 Criterion for the convergence in Newton Raphson method is
- $|f(x) f''(x)| \leq |f'(x)|$
 - $|f(x) f''(x)| \leq |f'(x)|$
 - $|f(x) f''(x)| \leq |f'(x)|^2$
 - $|f(x) f''(x)| \leq |f''(x)|^2$
- 67 Fourier sine transform of $1/x$ is
- $\sqrt{\frac{\pi}{2}}$
 - $\frac{\pi}{2}$
 - $\sqrt{\frac{2}{\pi}}$
 - $\sqrt{\frac{2}{\pi}}$
- 68 The transformation for evaluating the definite integral $\int_a^b f(x) dx$ using Gauss Quadrature formula is
- $x = \left(\frac{b-a}{2}\right)t + \left(\frac{b+a}{2}\right)$
 - $x = \left(\frac{b+a}{2}\right)t + \left(\frac{b-a}{2}\right)$
 - $x = \left(\frac{a-b}{2}\right)t + \left(\frac{a+b}{2}\right)$
 - $x = \left(\frac{b-a}{2}\right) + \left(\frac{b+a}{2}\right)t$
- 69 $L^{-1}\left[\frac{e^{-s}}{s}\right] = \dots\dots\dots$ ($u(t)$ = unit step function)
- $u(t-1)$
 - $u(t-2)$
 - $u(t+1)$
 - $u(t+2)$
- 70 $L\left[t^{\frac{1}{2}}\right] = \dots\dots\dots$
- $\frac{\sqrt{\pi}}{2s^{\frac{3}{2}}}$
 - $\frac{\sqrt{\pi}}{3s^{\frac{3}{2}}}$
 - $\frac{\sqrt{\pi}}{2s^{\frac{2}{3}}}$
 - $\frac{\sqrt{\pi}}{2s^{\frac{1}{2}}}$
- 71 Every basic feasible solution in convex set of solution is
- Extreme point
 - Boundary Point
 - Non- extreme point
 - Non- boundary point
- 72 If I is a ideal in a ring then
- R/I is a ring
 - RI is a ring
 - $R+I$ is a ring
 - $R-I$ is a ring
- 73 If G is an open set then curve γ is homologous to zero if for all $w \in \mathbb{C} - G$ –
- $n(\gamma; w) = 0$
 - $n(\gamma; w) = 1$
 - $n(\gamma; w) = 2$
 - $n(\gamma; w) = 4$
- 74 If R is an integral domain with unit element, then
- $R[x]$ is not a commutative Ring
 - $R[x]$ has a unit element
 - Any unit in $R[x]$ is unit in R
 - any unit in $R[x]$ is not an unit in R
- 75 A branch of logarithmic function is
- Continuous function
 - Differential function
 - Analytic function
 - none of these

- 90 The complete solution of differential equation, contains arbitrary constants
 a) More than the order of equation b) can't say c) Equal to order of equation
 d) less than the order of equation
- 91 The random variables X and Y are independent whose joint density is $f(x,y) = xye^{-xy}$ $0 < x, y < \infty$, then $f(x)$ is
 a) $\int_{-\infty}^{\infty} xy e^{-xy} dy$ b) $\int_0^{\infty} xy e^{-xy} dy$ c) $\int_x^{\infty} xy e^{-xy} dy$ d) $\int_y^{\infty} xy e^{-xy} dy$
- 92 Two Eigen values of $\begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}$ are 2 and 8. Find the 3rd Eigen value
 a) 1 b) 2 c) 4 d) 5
- 93 The coefficient of x^3 in the expression of $(1+x)^3(2+x^2)^{10}$ is
 a) 2^{14} b) 3^{14} c) $\binom{3}{3} + \binom{10}{1}$ d) $\binom{3}{3} + 2\binom{10}{1}$
- 94 $X_1^T X_2 = 0$ then the Eigen vectors X_1 and X_2 are
 a) orthogonal b) null c) symmetric d) skew symmetric
- 95 Given that $A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 3 \end{bmatrix}$ Evaluate $A^3 - 6A^2 + 11A - 10I$
 a) null matrix b) identity matrix c) $-4I$ d) $4I$
- 96 If X and Y are independent then $\text{cov}(ax+b, cy+d)$
 a) $ab \text{cov}(x, y)$ b) $\text{cov}(ax+b), \text{cov}(cy+d)$
 c) $\text{cov}(a+b, c+d)$ d) $\text{cov}(ax+b) \cdot \text{cov}(cy+d)$
- 97 If X is a r.v then $\text{var}(ax+b)$ is
 a) $\text{var}(ax) + \text{var}(b)$ b) $a^2 \text{var}(x) + b$ c) $a^2 \text{Var}(x)$ d) $\text{var}(ax) \cdot \text{var}(b)$
- 98 The Eigen values of A are 3, 2, 5. What is the sum of Eigen values of A^2
 a) 37 b) 39 c) 36 d) 38
- 99 $\nabla^2 r^n = ?$
 a) $n(n+1)r^{n-2}$ b) $(n+1)r^{n-2}$ c) $r^n / n!$ d) $(n-1)r^{n+2}$
- 100 According to Gauss Divergence theorem
 a) $\iiint_v \nabla \cdot \vec{F} dV = \iint_s \vec{F} \cdot \hat{n} dS$ b) $\iint_s (\nabla \times \vec{F}) \cdot \hat{n} dS = \int_c \vec{F} \cdot d\vec{r}$ c) $\int_c \vec{F} \cdot d\vec{r} = 0$ d) $\int_c \vec{F} \times d\vec{r} = 0$

Answer Sheet (Tick the appropriate answer inside the box)

1	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	26	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
2	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	27	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
3	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	28	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
4	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	29	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
5	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	30	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
6	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	31	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
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8	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	33	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
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14	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	39	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
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17	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	42	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
18	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	43	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
19	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	44	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
20	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	45	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
21	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	46	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
22	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	47	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
23	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	48	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
24	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	49	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d
25	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d	50	<input type="checkbox"/> a	<input type="checkbox"/> b	<input type="checkbox"/> c	<input type="checkbox"/> d

51	a	b	c	d	76	a	b	c	d
52	a	b	c	d	77	a	b	c	d
53	a	b	c	d	78	a	b	c	d
54	a	b	c	d	79	a	b	c	d
55	a	b	c	d	80	a	b	c	d
56	a	b	c	d	81	a	b	c	d
57	a	b	c	d	82	a	b	c	d
58	a	b	c	d	83	a	b	c	d
59	a	b	c	d	84	a	b	c	d
60	a	b	c	d	85	a	b	c	d
61	a	b	c	d	86	a	b	c	d
62	a	b	c	d	87	a	b	c	d
63	a	b	c	d	88	a	b	c	d
64	a	b	c	d	89	a	b	c	d
65	a	b	c	d	90	a	b	c	d
66	a	b	c	d	91	a	b	c	d
67	a	b	c	d	92	a	b	c	d
68	a	b	c	d	93	a	b	c	d
69	a	b	c	d	94	a	b	c	d
70	a	b	c	d	95	a	b	c	d
71	a	b	c	d	96	a	b	c	d
72	a	b	c	d	97	a	b	c	d
73	a	b	c	d	98	a	b	c	d
74	a	b	c	d	99	a	b	c	d
75	a	b	c	d	100	a	b	c	d