

Practice on Any Language -100+Problems

When we start practicing to improve our programming skills, the very first problems are always based on numbers. Here are Presenting Problems on,

- Simple Numbers
- Unit Conversion
- Calculation
- 4 Geometry
- Vector
- 6 Matrix
- Set
- Special Numbers

Start...

Simple Numbers

- ① Find a digit at a specific place in a number
- ② Find count of digits in a number
- 3 Find the largest digit
- Find the 2nd largest digit
- ⑤ Find the kth largest digit
- © Find the smallest digit
- Tind the 2nd smallest digit
- ® Find the kth smallest digit
- Find generic root (sum of all digits) of a number
- [®] Reverse the digits in a number
- ①① Rotate the digits in a number

- ①② Is the number a palindrome?
- 13 Find sum of 'n' numbers
- ① ④ Check if a number is perfect square
- ①⑤ Find a number in an AP sequence
- ①⑥ Find a number in a GP sequence
- ①⑦ Find a number in fibonacci sequence
- ①® Check number divisibility by 2, 3, 5, 9
- ① 9 Check if a number is primary or not
- 20. Given a number, print all primes smaller than it
- 21 Check if a number is circular prime or not
- 22 Find all prime factors of a number
- 23 Find the GCD of 2 numbers
- 24 Find the LCM of 2 numbers

2 Unit Conversion

- ① Base (Binary, Octal, Hexadecimal, Decimal)
- 2 Weight
- 3 Height
- **4** Temperature
- ⑤ Distance
- 6 Area
- ⑦ Volume
- ® Time
- Ourrency

3 Calculation

- ① Find the exponentiation of a number
- ② Find the factorial of a number
- 3 Loan EMI Calculator

- ④ Fixed Deposit Returns Calculator
- ⑤ Interest Calculator
- **©** BMI Calculator
- ① Item Price (considering tax, discount, shipping)
- ® Tip Calculator

4 Geometry

- ① Find distance between 2 points
- ② Given 2 sides of a right angle triangle, find the 3rd
- ③ Find 3rd angle of a triangle when 2 are given
- 4 Area of a triangle when 3 sides are given
- ⑤ Area of a right angle triangle
- © Perimeter of a Square
- ② Area of a Square
- ® Perimeter of a Rectangle
- Area of a Rectangle
- © Circumference of a Circle
- ①① Area of a Circle
- 12 Circumference of a Semi-Circle
- ①3 Area of a Semi-Circle
- 14 Area of a Ring
- ①⑤ Circumference of an Ellipse
- 16 Area of an Ellipse
- ①⑦ Suface Area of a Sphere
- ①® Volume of a Sphere
- ① 9 Surface Area of a Hemisphere
- 20. Volume of a Hemisphere
- ②① Surface area of a Cube
- 22 Volume of a Cube
- 23 Surface area of a Cylinder

24 Volume of a Cylinder

S Vector

- ① Find Scalar Multiplication of a vector
- ② Find addition/subtraction of vectors
- 3 Find magnitude of a vector
- Find an unit vector along a given vector
- ⑤ Find dot product of 2 vectors
- ⑤ Find cross product of 2 vectors
- ⑦ Check if 2 vectors are orthogonal

6 Matrix

- ① Find the determinant of a matrix
- ② Find Scalar Multiplication of a matrix
- 3 Find addition/subtraction of matrices
- ④ Find the transpose of a matrix
- ⑤ Find if 2 matrices are orthogonal
- © Find inverse of a 2x2 and 3x3 matrix

Set

- ① Find Union of 2 sets
- ② Find Intersection of 2 sets
- 3 Find the Difference of 2 sets
- Find the Symmetric Difference of 2 sets
- ⑤ Find if a set is subset/superset of another set
- © Find if 2 sets are disjoints

Special Numbers

- ① Strong Number
- ② Perfect Number
- 3 Armstrong Number
- **4** Harshad Number
- **S** Kaprekar Number
- **©** Lychrel Number
- ② Narcissistic Decimal Number

- [®] Duck Number
- ①① Ugly Number
- ①3 Deficient Number
- **14** Automorphic Number
- ①⑤ Magic Number
- **16** Friendly Pair Numbers
- ①⑦ Neon Number
- **18** Spy Number
- ①9 Happy Number
- 20. Sunny Number
- 21 Disarium Number
- 22 Pronic Number
- 23 Trimorphic Number
- 24 Evil Number
- 25 Amicable Pairs 02 Abundant Number