<https://aticleworld.com/c-interview-questions-for-experienced-with-answer/>

1. **Using the variable p write down some declaration**
2. An integer variable.
3. An array of five integers.
4. A pointer to an integer.
5. An array of ten pointers to integers.
6. A pointer to a pointer to an integer.
7. A pointer to an array of three integers.
8. A pointer to a function that takes a pointer to a character as an argument and returns an integer.
9. An array of five pointers to functions that take an integer argument and return an integer.

**Ans:**

1. int p; // An integer

2. int p[5]; // An array of 5 integers

3. int \*p; // A pointer to an integer

4. int \*p[10]; // An array of 10 pointers to integers

5. int \*\*p; // A pointer to a pointer to an integer

6. int (\*p)[3]; // A pointer to an array of 3 integers

7. int (\*p)(char \*); // A pointer to a function a that takes an integer

8. int (\*p[5])(int); // An array of 5 pointers to functions that take an integer argument and return an integer

1. If Data is signed type negative value, the right shifting operation of Data is implementation-dependent but for the unsigned type, it would be Data/ 2pos.
2. If Data is signed type negative value, the left shifting operation of Data shows the undefined behavior but for the unsigned type, it would be Data x 2pos.
3. Volatile pointer to integer
   * int \* volatile p;
4. Volatile const
   * int volatile \* const p; // p is constant pointer to a volatile interger, this is used in register access to ensure the address pointed by the pointer is not changed
5. Set Nth bit
   * Number |= (1 << bit position)
6. Clear Nth bit
   * Number &= ~(1 << bit position)
7. Check Nth bit
   * Bit = Number & (1 << bit position)
8. Toggle Nth bit
   * Bit ^= (1 << bit position)

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