KAZAKH KBTU BRITISH
T E C H N I C A L
U N I V E R S I T Y

KAZAKH-BRITISH TECHNICAL UNIVERSITY
FACULTY OF INFORMATION TECHNOLOGIES
Course: Programming Principles I   **Date:** 14/12/2019
Variant: 1

If you have multiple answers for one question fill them in one cell

01	02	03	04	05	06	07	08	09	10
11	12	13	14	15	16	17	18	19	20

1. Which of the following data types takes 1 byte of memory?

   (a) int

   (b) long long

   (c) char +

   (d) double

2. Logical operator XOR is denoted by:

   (a) %

   (b) #

   (c) ^ +

   (d) —

3. What is the output of following program?

```cpp
#include <iostream>
using namespace std;
int main(){
    int x = 15, y = 20;
    x += 23;
    y++;
    cout << x % y;
    return 0;
}
```

(a) 19

(b) 17+

(c) 3

(d) None of them