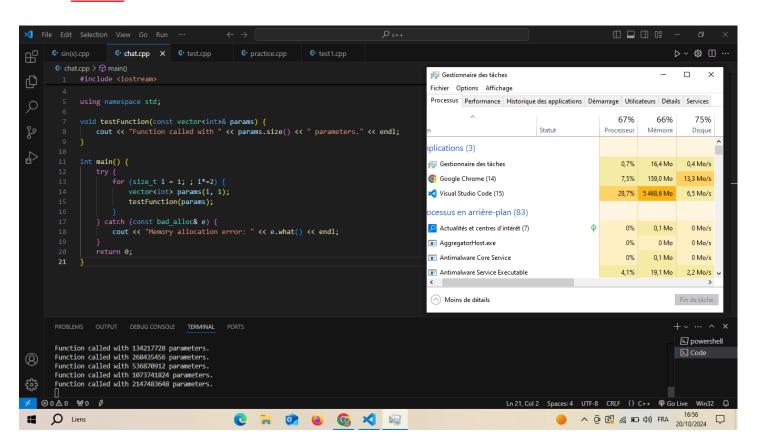
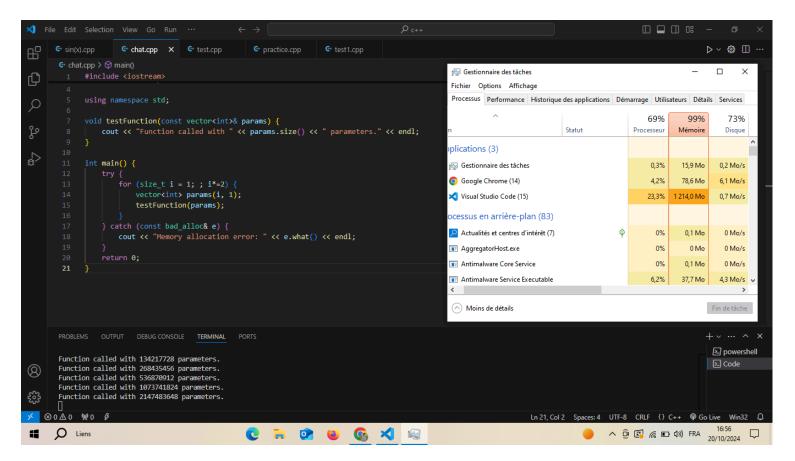
Devoir : le Challenge des paramètres

I.Code:

```
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                                                                                  € test1.cpp
               #include <iostream>
               #include <stdexcept>
               void testFunction(const vector<int>& params) {
                    cout << "Function called with " << params.size() << " parameters." << endl;</pre>
₽
               int main() {
                  try {
    for (size_t i = 1; ; i*=2) {
        vectorxint> params(i, 1);
        testFunction(params);
}
                    catch (const bad_alloc& e) {
   cout << "Memory allocation error: " << e.what() << endl;
                    return 0;
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```

Result:





Function called with 4294967296 parameters. Memory allocation error: std::bad_alloc/

Conclusion:

After running this code, I noticed that my laptop's memory and processor worked very hard, causing the system to lag before the code finally produced results. I think this behavior would be different on laptops with better hardware. For example, a computer with more RAM or a faster processor would likely perform better and handle larger data sizes more efficiently before hitting memory limits. The code grows the vector exponentially, and the system resources get overwhelmed, which explains the lag and eventual memory allocation error.