

TP 1 - Partie 2 - Exercice 3 - I

```
1  #include <cassert>
2  #include <iostream>
3
4  #define SHOW(arg) std::cout << "Macro SHOW "" #arg "": " << (arg) << '\n';
5
6  int sum(int n) {
7      assert(n >= 1);
8      if (n == 1)
9          return 1;
10     return n + sum(n - 1);
11 }
12
13 int main() {
14     SHOW(sum(1))
15     SHOW(sum(2))
16     SHOW(sum(3))
17     SHOW(sum(4))
18 }
```

TP 1 - Partie 2 - Exercice 3 - II

Output:

```
1 Macro SHOW "sum(1)": 1
2 Macro SHOW "sum(2)": 3
3 Macro SHOW "sum(3)": 6
4 Macro SHOW "sum(4)": 10
```