create some initial files :

1. BruteFroces Solution as **bruteforces.cpp**
2. Optimal Solution as **efficient.cpp**
3. Create testCase generator c++ file which create different type of test-case as **gen.cpp**
4. Create a txt file which store data from file - 03 as **in.txt**
5. Built Solution - 01, Solution - 02, Code-03
6. Create a bash file to check the as **checker.sh**
7. **Just run this checker.sh**

Test case generator file :

```
#include <bits/stdc++.h>
#define int long long
using namespace std;
mt19937_64
rng(chrono::steady_clock::now().time_since_epoch().count());
inline int gen_random(int l, int r) {
    return uniform_int_distribution<int>(l, r)(rng);
}
signed main() {
    freopen("in.txt", "w", stdout);

    return 0;
}
```

Bash file as checker.sh

```
#compile all file -just run this file
g++-14 -o bruteforces bruteforces.cpp
g++-14 -o efficient efficient.cpp
g++-14 -o gen gen.cpp

#generate test-case
for ((i = 1; true; ++i)); do
    ./gen $i > in.txt
    diff -w <(./bruteforces < in.txt) <(./efficient < in.txt) || break
done
```