Transform Ranges

Now we will study std::transform which is used to perform transformations on a range.

The std::transform algorithm applies a unary or binary callable to a range and copies the modified elements to the destination range.

Applies the unary callable fun to the elements of the input range and copies the result to result:

```
OutIt transform(InpIt first1, InpIt last1, OutIt result, UnFun fun)
FwdIt2 transform(ExePol pol, FwdIt first1, FwdIt last1, FwdIt2 result, UnFun fun)
```

Applies the binary callable fun to both input ranges and copies the result to result:

```
OutIt transform(InpIt1 first1, InpIt1 last1, InpIt2 first2, OutIt result, BiFun fun)
FwdIt3 transform(ExePol pol, FwdIt1 first1, FwdIt1 last1, FwdIt2 first2, FwdIt3 result, BiFur
```

The difference between the two versions is that the first version applies the callable to each element of the range; the second version applies the callable to pairs of both ranges in parallel. The returned iterator points to one position after the last transformed element.

```
#include <algorithm>
#include <cctype>
#include <iostream>
#include <string>
#include <vector>

int main(){

std::cout << std::endl;

std::string str{"abcdefghijklmnopqrstuvwxyz"};

std::cout << str << std::endl;

std::cout << str << std::endl;
</pre>
```







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Transform algorithms