**A conditional transform algorithm for C++**

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**Introduction**

We propose the addition of a conditional transform algorithm, `std::transform_if` to the standard library. Design of `std::transform_if` should follow that in the Boost library. The current omission of `transform_if` from the C++ standard library is a cause of some surprise for experienced programmers.

**Impact on the standard**

This proposal is a pure library extension. It requires additions to be made to the standard library header `<algorithm>`,

**Technical specifications**

To be adopted from Boost.

**Acknowledgements**

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**References**

[boost::transform_if] “boost C++ libraries: Function template transform_if”