

```

/* The following code example is taken from the book
 * "The C++ Standard Library – A Tutorial and Reference, 2nd Edition"
 * by Nicolai M. Josuttis, Addison-Wesley, 2012
 *
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 */
template <typename InputIterator, typename Tp>
inline InputIterator
find_before (InputIterator first, InputIterator last, const Tp& val)
{
    if (first==last) {
        return first;
    }
    InputIterator next(first);
    ++next;
    while (next!=last && !(*next==val)) {
        ++next;
        ++first;
    }
    return first;
}

template <typename InputIterator, typename Pred>
inline InputIterator
find_before_if (InputIterator first, InputIterator last, Pred pred)
{
    if (first==last) {
        return first;
    }
    InputIterator next(first);
    ++next;
    while (next!=last && !pred(*next)) {
        ++next;
        ++first;
    }
    return first;
}

```