```cpp
//
//  AutoKey.cpp
//  midterm
//
//  Created by Xinzhe Yu on 14/4/2025.
//
#include "AutoKey.h"


AutoKey::AutoKey(const std::string& aKeyword) noexcept:
    fValue(""),
    fKeyLength(0),
    fIndex(0)
{
    for (char c : aKeyword)
    {
        if (std::isalpha(c))
        {
            fValue += std::toupper(c);
        }
    }
    fKeyLength = fValue.length();
}

size_t AutoKey::size() const noexcept
{
    return fValue.length();
}

char AutoKey::operator*() const noexcept
{
    return fValue[fIndex];
}

AutoKey& AutoKey::operator++() noexcept
{
    if (fIndex < fValue.length())
    {
        ++fIndex;
    }
    return *this;
}

AutoKey AutoKey::operator++(int) noexcept
{
    AutoKey temp = *this;
    ++(*this);
    return temp;
}

AutoKey& AutoKey::operator+=(char aChar) noexcept
{
    if (std::isalpha(aChar))
    {
        fValue += std::toupper(aChar);
```

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    }
    return *this;
}

void AutoKey::reset() noexcept
{
    fValue.resize(fKeyLength);
    fIndex = 0;
}
```