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#include<iostream>

#include<cstring>

#include<string>

#include<bits/stdc++.h>


using namespace std;


class Words{
private:
    char *words[5];

    int count;
public:
    Words(){ count=0; }
    ~Words() {
        for(int i=0;i<count;i++)
            delete words[i];
    }
    int Count(){
        return count;
    }
    char *MaxW(int pos){
        return words[pos];
    }
    void setWords(char *line){
        char *token=strtok(line, " ");
        while(token != NULL){
            if(count == 5)
                break;

            words[count]=new char[strlen(token)+1];

            strcpy(words[count], token);

            token= strtok(NULL, " ");
        }
    }
};

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        count+=1;
    }
}

void displwrd(){
    for(int i=0;i<count;i++){
        cout<<words[i]<<" ";
        cout<<endl;
    }
}

bool SrchReplace(char *key, char*rep){
    for(int i=0;i<count;i++){
        if(strcmp(words[i], key) == 0){
            words[i]=new char[strlen(rep)+1];
            strcpy(words[i], rep);
            return true;
        }
    }
    return false;
}

int MaxWords(){
    int max=strlen(words[0]);
    int pos=0;
    for(int i=1;i<count;i++){
        if(max < strlen(words[i])){
            max = strlen(words[i]);
            pos = i;
        }
    }
    return pos;
}

};

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int main(){

    Words ws;

    string line;
    getline(cin, line);

    ws.setWords((char *)line.c_str());
    ws.displwrd();

    cout<<"Max of all Words: "<<ws.MaxW(ws.MaxWords())<<endl;
    cout<<"\n Enter the word to search: "<<endl;
    string key;
    cin>>key;
    cout<<"\nEnter the word to be Replaced: "<<endl;
    string rep;
    cin>>rep;

    if(ws.SrchReplace((char *)key.c_str()),(char *)rep.c_str())==true)
    {
        cout<<"After Replacing "<<endl;
        ws.displwrd();
    }
    return 0;
}
```