```
#include <bits/stdc++.h>
#include <string>
#include <stdio.h>
#include <ctype.h>
#include <regex>
#include <iostream>
#include <list>
#include <sstream>
#include <typeinfo>
#include <iterator>
#include <vector>
using namespace std;
map<string, string> tokens_map;
vector<string> tokens;
vector<string> definition;
void lexer(string input){
 string token ="";
 int len = input.length();
 for (auto i=0; i<len; i++){
  if (input[i] == ' '){
   cout<<"TOkens: "<<token<<endl;</pre>
   tokens.push_back(token);
   token="";
  }
  else{
   token+=input[i];
  }
 }
 cout<<"TOkens: "<<token<<endl;
```

```
tokens.push_back(token);
 return;
}
int main(){
 string line;
 while (!cin.eof())
{
  getline(cin, line);
  if (cin.fail())
  {
     //error
     break;
  }
}
  for (auto x : line){
  if (x == ' '){}
    cout<<"Word: "<<token<<endl;</pre>
    if (token == "LET" || token == "PRINT" || token == "PRINTLN"){
     tokens.push_back(token);
     // order[token]= "KEYWORD";
     cout<<token<<" is a keyword"<<endl;
   }
    else if (token == "A" || token == "B" || token == "C"){
     // order[token] = "Variable";
     tokens.push_back(token);
     cout<<token<<" is a variable"<<endl;
   }
   else if (token == "=" || token == "+" || token == "-" || token == "/"
         || token == "*"){
     tokens.push_back(token);
```

```
cout<<token<<" is an operator"<<endl;
        }
    else if(token == "5" || token == "7" || token == "10"){
     // order[token] = "INTEGER";
     tokens.push_back(token);
     cout<<token<<" is an integer"<<endl;
   }
  // cout<<"Type: "<<typeid(token).name()<<endl;</pre>
  token="";
 }
 else{
  token+=x;
 }
}
cout<<"Shabd: "<<token<<endl;
tokens.push_back(token);
if (token == "LET" || token == "PRINT" || token == "PRINTLN"){
 // order[token]= "KEYWORD";
 cout<<token<<" is a keyword"<<endl;
}
else if (token == "A" || token == "B" || token == "C"){
 // order[token] = "Variable";
 cout<<token<<" is a variable"<<endl;
else if(token == "5" || token == "7" || token == "10"){
 // order[token] = "INTEGER";
 cout<<token<<" is an integer"<<endl;
}
char* tokens[100] = [];
list<string> tokens;
int i = 0;
string token = "";
for (auto x : line){
 if (x == ' '){}
```

```
tokens.push_back(token);
token=' ';
i++;
}
else{
  token+=x;
}

tokens.push_back(token);
lexer(line);

vector<string> iterator
for (auto i = tokens.begin(); i != tokens.end(); i++){
  cout<<ii<<endl;
}
</pre>
```