```
regex reg1("((->)|;|(\\()|(\\))|(\\[)|(\\]))|([a-zA-Z]+)");
regex regloop("(loop.*;.*;.*(go))");
regex regif(".*(if.*(go))");
regex regpara(".*(\\().*\\)");
regex regpara2(".*(\\().*\\)");
```

For lab3, to match my tokens I used regular expressions (regex).

```
    ST.txt
    1    0
    2    1    --> int
    3    2
    4    3
    5    4
    6    5    --> i
    7    6
    8    7    --> a
    9    8
    10    9
    11
```

If the tokens exists in token.txt, it will be added in pif.txt, if not, it will be added in the st.txt (lab2) and pif.txt, as a identifier, with the index from the ST.

```
≡ pif.txt

       ->
                   0
                   0
       1
                   0
       min
                   4
       loop
                   0
       i
                   5
                   0
       smaller
                   0
       size
                   3
11
                   0
12
       )
                   0
       plus
                   2
       go
```

For the lexicals errors I used regex_match.

```
if((*it)[0]=="loop")
    if(regex_match(line,regloop)==0)
        cout<<"loop error on line "<<count<<endl;
if((*it)[0]=="if")
    if(regex_match(line,regif)==0)
        cout<<"if error on line "<<count<<endl;
if((*it)[0]=="(")
        if(regex_match(line,regpara)==0)
        cout<<"( error on line "<<count<<endl;
if((*it)[0]=="[")
        if(regex_match(line,regpara)==0)
        cout<<"[] error on line "<<count<<endl;</pre>
```



```
PS C:\Users\danig\Desktop\An 3\
anner }
[] error on line 1
loop error on line 2
if error on line 3
```