class Solution {

public:

int numUniqueEmails(vector<string>& emails) {

string s1;

set<string>s2;

int i,j,k,f=0;

for(i=0;i<emails.size();i++){

for(j=0;j<emails[i].size();){

if(emails[i][j]=='@'||emails[i][j]=='+'){

break;

}

if(emails[i][j]!='.')

s1+=emails[i][j];

j++;

}

for(k=j;k<emails[i].size();){

if(emails[i][k]=='@'&& f==0)f=1;

if(f==1)

{

s1+=emails[i][k];

}

k++;

}

f=0;

//cout<<s1<<'\n';

s2.insert(s1);

s1="\0";

}

return s2.size();

}

};