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| --- | --- | --- | --- |
| Design an application in C++ using STL List and STL stack as per given requirements. Add required class and implementation . | | |  |
| Requirement Tag | Requirement Description | Comments |  |
| FSTR/01 | Read a list of server name and port numbers (separated by a configurable delimiter) as command line arguments and store in suitable STL list container |  |  |
| FSTR/02 | Display the received objects using containers iterator |  |  |
| FSTR/03 | Read and store the list content in stack |  |  |
| FSTR/04 | Retrieve and display the stack content |  |  |
| FSTR/05 | Ensure that there are no memory leaks |  |  |
|  |  |  |  |

#include<iostream>

#include<string>

#include<list>

#include <stack>

using namespace std;

int main(int argc,char \*argv[])

{

char ch;

string str;

list<string> ll;

list<string>:: iterator itr=ll.begin();

for(int i=1; i<argc;i++)

{

str=argv[i];

ll.push\_back(str);

}

itr=ll.begin();

cout<<"here is the list";

while(itr!=ll.end())

{

cout<<"\n"<<\*itr++;

}

itr=ll.begin();

stack<string> stack;

while(itr!=ll.end())

{

stack.push(\*itr++);

}

cout << "\n Here is the stack" ;

while (!stack.empty()) {

cout<< '\n'<<stack.top();

stack.pop();

}

}