package com.longest.lines;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.IOException;

import java.util.Comparator;

import java.util.Set;

import java.util.TreeSet;

public class Main {

public static void main(String[] args) {

BufferedReader br = null;

String filePath = args[0];

int topList = 0;

Set<Entries> liSet = new TreeSet<Entries>(new MyComp());

try {

br = new BufferedReader(new FileReader(new File(filePath)));

String line = br.readLine();

topList = Integer.parseInt(line.trim());

while((line = br.readLine()) != null){

line = line.trim();

if(!"".equals(line)){

liSet.add(new Entries(line.length(), line));

}

}

int count = 0;

for(Entries ent:liSet){

System.out.println(ent.line);

if(++count == topList){

break;

}

}

} catch (FileNotFoundException e) {

// TODO Auto-generated catch block

e.printStackTrace();

} catch (IOException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

public static class Entries{

Integer length;

String line;

public Entries(Integer l,String line){

length = l;

this.line = line;

}

}

public static class MyComp implements Comparator<Entries>{

@Override

public int compare(Entries e1, Entries e2) {

if(e2.length > e1.length){

return 1;

} else {

return -1;

}

}

}

}

