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Practice 4

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Coures: 2022-CE1004-B

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package com.company;

import javax.print.DocFlavor;

import java.lang.String;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.FileReader;

import java.io.\*;

import java.math.BigDecimal;

import java.math.BigInteger;

import java.nio.Buffer;

import java.util.Vector;

public class P4\_110502018{

public static void main(String[] args) {

try{

FileReader file = new FileReader("input.txt");

BufferedReader bf = new BufferedReader(file);

StringBuilder content = new StringBuilder();

String line = "";

while((line = bf.readLine()) != null){content.append(line);}

file.close();

char[] vol = content.toString().toCharArray();

StringBuilder bin\_list = new StringBuilder();

String plus = "";

for(char i :vol){

int acs = Integer.valueOf(i);

String bin\_str = Integer.toBinaryString(acs);

if(bin\_str.length()<8){

int l = 8-bin\_str.length();

for(int n=0; n<l; n++){bin\_str = "0" + bin\_str;}}

bin\_list.append(bin\_str);}

int len = bin\_list.length();

if(len % 6 == 4){

bin\_list.append("00");

plus = "=";}

else if(len %6 == 2){

bin\_list.append("0000");

plus = "==";}

len = bin\_list.length();

for(int i=0; i\*6<len; i++){

bin\_list.insert(i\*6+i,"@");}

String[] list = bin\_list.toString().split("@");

int[] value = new int[len/6];

int k=0;

for(String i:list){if(!i.equals("")){

value[k] = Integer.parseInt(i,2);

k++;}}

StringBuilder ans = new StringBuilder();

for(int i:value){ans.append(number\_to\_char(i));}

ans.append(plus);

System.out.println(ans);//print

FileWriter output = new FileWriter("output.txt");

BufferedWriter bf\_out = new BufferedWriter(output);

bf\_out.write(ans.toString());

bf\_out.flush();

bf\_out.close();

}

catch(IOException e){System.out.println(e);}

}

private static char number\_to\_char(int number){

char[] list = {'A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U','V','W','X','Y','Z','a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','s','t','u','v','w','x','y','z','0','1','2','3','4','5','6','7','8','9','+','/'};

return list[number];

}

}