import java.util.\*;

import java.io.\*;

public class Main

{

static int mnt\_index=0,mtdc=1,code\_ptr=0;

static int mi[]=new int[10];

static String m\_name[]=new String[10];

static String code[]=new String[100];

static String mdt\_code[]=new String[100];

public static void main(String[] args)throws Exception

{

Scanner sc=new Scanner(System.in);

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

do{

System.out.println("Please enter the no of lines of code");

int n=sc.nextInt();

System.out.println("Please enter the no of arguments in code");

int m=sc.nextInt();

System.out.println("Please enter lines of code");

for(int i=code\_ptr;i<n+code\_ptr;i++)

code[i]=br.readLine();

if(!code[code\_ptr].equalsIgnoreCase("MACRO"))

System.out.println("Not a macro");

else

{

mnt();

mdt(n);

ala(m);

}

code\_ptr+=n;

System.out.println("Press 1 for any more macros else press 0");

}while(sc.nextInt()!=0);

}

public static void mnt()

{

m\_name[mnt\_index]=code[code\_ptr+1];

mi[mnt\_index]=mtdc;

System.out.println("MNT is:");

System.out.println("MNT Index \t Macro Name \t MTDC pointer");

for(int i=0;i<=mnt\_index;i++)

System.out.println(i+1 +"\t\t "+m\_name[i]+"\t\t"+mi[i]);

mnt\_index++;

}

public static void mdt(int n)

{

System.out.println("MDT is:");

System.out.println("MDT Index \t Definition ");

for(int i=code\_ptr;i<code\_ptr+n;i++)

{

if((i!=code\_ptr) && (i!=code\_ptr+1) && (i!=code\_ptr+n-1))

mdt\_code[mtdc++]= code[i];

}

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

System.out.println(i + "\t\t "+mdt\_code[i]);

}

public static void ala(int m)

{

String s=code[code\_ptr+1];

String temp=" ";

int space=s.indexOf(temp);

int comma=s.indexOf(",");

System.out.println("ALA is:");

for(int i=0;i<m-1;i++)

{

System.out.println( i+1 +"\t "+ s.substring(space, comma));

space=comma+1;

comma+=s.indexOf(",", comma)-3;

}

System.out.println( m +"\t "+ s.substring(space));

}

}