

```

import java.io.*;
import java.util.*;

public class ACSL_NYSIIS
{
    public static void main (String [] args)
    {
        File in = new File("C://test1.txt");
        BufferedReader br = null;

        try
        {
            br = new BufferedReader(new FileReader(in));
            String line;

            while ((line = br.readLine()) != null)
            {
                String input = line;
                String result = "";
                //*****CONDITION 1
START*****//
                if (input.substring(0, 3).equals("MAC"))
                {
                    result = "MC"+input.substring(3);
                }
                else if (input.substring(0, 2).equals("KN"))
                {
                    result = "N"+input.substring(2);
                }
                else if (input.substring(0, 1).equals("K"))
                {
                    result = "C"+input.substring(1);
                }
                else if (input.substring(0, 2).equals("PH"))
                {
                    result = "F"+input.substring(2);
                }
                else if (input.substring(0, 2).equals("PF"))
                {
                    result = "F"+input.substring(2);
                }
                else if (input.substring(0, 3).equals("SCH"))
                {

```

```

        result = "S"+input.substring(3);
    }
    else
    {
        result = input;
    }
    //*****CONDITION 1
END*****//

//#####//
//*****CONDITION 2
START*****//
    int len = result.length();
    String comp = result.substring(len-2);
    if (comp.equals("EE") || comp.equals("IE"))
    {
        result = result.substring(0, len-2)+"Y";
    }
    else if (comp.equals("DT") || comp.equals("RT")
|| comp.equals("RD") || comp.equals("NT") || comp.equals("ND"))
    {
        result = result.substring(0, len-2)+"D";
    }
    //*****CONDITION 2
END*****//

//#####//
//*****CONDITION 3
START*****//
    len = result.length();
    for (int i = 1; i < len-1; i++)
    {
        if (result.substring(i, i+2).equals("EV"))
        {
            result = result.substring(0,
i)+"AF"+result.substring(i+2);
            i-=2;
            len-=2;
        }
        else if (result.substring(i,
i+2).equals("KN"))
        {
            result = result.substring(0,

```

```

i)+"N"+result.substring(i+2);
        i-=2;
        len-=2;
    }
    else if (result.substring(i,
i+2).equals("PH"))
    {
        result = result.substring(0,
i)+"F"+result.substring(i+2);
        i-=2;
        len-=2;
    }
}

len = result.length();
for (int i = 1; i < len-2; i++)
{
    if (result.substring(i, i+3).equals("SCH"))
    {
        result = result.substring(0,
i)+"S"+result.substring(i+3);
    }
}

len = result.length();
for (int i = 1; i < len; i++)
{
    if (result.substring(i, i+1).equals("A") ||
result.substring(i, i+1).equals("E") || result.substring(i,
i+1).equals("I") || result.substring(i, i+1).equals("O") ||
result.substring(i, i+1).equals("U"))
    {
        result = result.substring(0,
i)+"A"+result.substring(i+1);
    }
    if (result.substring(i, i+1).equals("Q"))
    {
        result = result.substring(0,
i)+"G"+result.substring(i+1);
    }
    if (result.substring(i, i+1).equals("Z"))
    {
        result = result.substring(0,

```

```

i)+"S"+result.substring(i+1);
    }
    if (result.substring(i, i+1).equals("M"))
    {
        result = result.substring(0,
i)+"N"+result.substring(i+1);
    }
    if (result.substring(i, i+1).equals("K"))
    {
        result = result.substring(0,
i)+"C"+result.substring(i+1);
    }
}

len = result.length();
int hIdx = result.indexOf('H');
if (hIdx > 0)
{
    if ((result.charAt(hIdx-1)!='A' &&
result.charAt(hIdx-1)!='E' && result.charAt(hIdx-1)!='I' &&
result.charAt(hIdx-1)!='O' && result.charAt(hIdx-1)!='U') ||
        (result.charAt(hIdx+1)!='A' &&
result.charAt(hIdx+1)!='E' && result.charAt(hIdx+1)!='I' &&
result.charAt(hIdx+1)!='O' && result.charAt(hIdx+1)!='U'))
    {
        result = result.substring(0,
hIdx)+result.substring(hIdx+1);
    }
}

len = result.length();
int wIdx = result.indexOf('W');
if (wIdx > 0)
{
    if (result.charAt(wIdx-1)=='A' ||
result.charAt(wIdx-1)=='E' || result.charAt(wIdx-1)=='I' ||
result.charAt(wIdx-1)=='O' || result.charAt(wIdx-1)=='U')
    {
        result = result.substring(0,
wIdx)+result.substring(wIdx+1);
    }
}
}

```

```

        len = result.length();
        for (int i = 1; i < len-2; i++)
        {
            if (result.charAt(i) == result.charAt(i+1))
            {
                result = result.substring(0,
i)+result.substring(i+1);
                i-=1;
                len-=1;
            }
        }
        //*****CONDITION 3
END*****//

        //#####//
        //*****CONDITION 4
START*****//
        len = result.length();
        if (result.substring(len-1).equals("S"))
        {
            result = result.substring(0, len-1);
            len--;
        }
        if (result.substring(len-1).equals("A"))
        {
            result = result.substring(0, len-1);
            len--;
        }
        if (result.substring(len-2).equals("AY"))
        {
            result = result.substring(0, len-2)+"Y";
            len--;
        }

        //*****CONDITION 4
END*****//
        System.out.println(result);
    }
}
catch (IOException e)
{
    e.printStackTrace();
}

```