Lösung **LetterCodeE.om** Blatt 8

```
MODULE LetterCodeE;

        (**************************
         * Allgemeine Informatik I *
         *      WS 2001/2002       *
         *     Uebungsblatt 8      *
         *     Beispielloesung     *
         **************************)

IMPORT Read, Write, Streams;

VAR ch : CHAR;
    counter, pos : INTEGER;

BEGIN
counter:=1;
Read.Char(ch);
WHILE ~Streams.stdin.eof DO
        CASE ch OF
          | "a" .. "z" : pos:=((ORD(ch)-ORD("a"))+counter) MOD 26;
                         ch:=CHR(ORD("a")+pos);
          | "A" .. "Z" : pos:=((ORD(ch)-ORD("A"))+counter) MOD 26;
                         ch:=CHR(ORD("A")+pos);
          | "0" .. "9" : pos:=((ORD(ch)-ORD("0"))+counter) MOD 10;
                         ch:=CHR(ORD("0")+pos);
          ELSE
            (* nothing is changed here *)
          END;
        Write.Char(ch);
        Read.Char(ch);
        INC(counter);
        END;
END LetterCodeE.
```

Lösung **LetterCodeD.om** Blatt 8

```
MODULE LetterCodeD;

        (**************************
         * Allgemeine Informatik I *
         *      WS 2001/2002       *
         *     Uebungsblatt 8      *
         *     Beispielloesung     *
         **************************)

IMPORT Read, Write, Streams;

VAR ch : CHAR;
    counter, pos : INTEGER;

BEGIN
counter:=1;
Read.Char(ch);
WHILE ~Streams.stdin.eof DO
        CASE ch OF
          | "a" .. "z" : pos:=((ORD(ch)-ORD("a"))-counter) MOD 26;
                         ch:=CHR(ORD("a")+pos);
          | "A" .. "Z" : pos:=((ORD(ch)-ORD("A"))-counter) MOD 26;
                         ch:=CHR(ORD("A")+pos);
          | "0" .. "9" : pos:=((ORD(ch)-ORD("0"))-counter) MOD 10;
                         ch:=CHR(ORD("0")+pos);
          ELSE
            (* nothing is changed here *)
          END;
        Write.Char(ch);
        Read.Char(ch);
        INC(counter);
        END;
END LetterCodeD.
```