```
seq_{\sqcup}**_{\sqcup}iseq_{\sqcup}==_{\sqcup}[i_{\sqcup}\setminus in_{\sqcup}(Nat_{\sqcup}\setminus_{\sqcup}\{0\})_{\sqcup}]->
uuuuuuuuuuu IFuiu=<uLen(seq)uTHENuseq[i]
     JUUUUUUUUUUUUUUUUUUUUUUUUUUUUUELSEUiseq[iu-uLen(seq)]]
Inv_{\sqcup} = =_{\sqcup} / \setminus_{\sqcup} TypeOK
____/\.(Len(ch).,=<,,N)
____/\_Input_=_(out_\o_ch), **, in
```