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**Open**

How BNF works

Token	Lexemes	Patterns
while	while	while
if	if	if
relation	<,>,<=	<   <=   !=
identifier	foo, ll	[a-zA-Z]*[a-zA-Z]
number	3.145987	[0-9]*([0-9]*[0-9])
string	"Hello, world!"	"."

EBNF: Example



• Example: numbers

```
/* A number is either 0 or 1-9 followed by any number of digits*/
number = "0" | digit1 {digit}
digit1 = "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"
/* This means that the non-terminal symbol digit1 is one of 1-9 */
digit = "0" | digit1 /* a digit is either 0 or 1-9 */
```

• For any number, we can write how it is produced:

E.g., 120 is an element of the language of the numbers, produced by:  
 number -> digit1 {digit} -> 1 {digit} -> 1 digit1 {digit} -> 12 {digit} -> 120  
 - " -> " means apply a production rule  
 - In the example, we applied them on the leftmost possibility

• Any string that cannot be produced by this "grammar" is not a part of the language, e.g., "1a2"

BNF (Backus-Naur Form)

```
<expression> ::= <expression> + <term>
               | <expression> - <term>
               | <term>

<term> ::= <term> * <factor>
         | <term> / <factor>
         | <factor>

<factor> ::= number
          | name
          | ( <expression> )
```

*⟨rule⟩* ::= *⟨logic\_statement⟩* ‘=>’ *⟨action\_statement⟩*

*⟨logic\_statement⟩* ::= *⟨event\_statement⟩* | *⟨logic\_function⟩*  
| TRUE | FALSE |

*⟨logic\_function⟩* ::= *⟨logic\_func\_1arg⟩*  
| *⟨logic\_func\_2arg⟩* | *⟨comparison⟩*

*⟨logic\_func\_1arg⟩* ::= NOT ‘(’ *⟨logic\_statement⟩* ‘)’

*⟨logic\_func\_2arg⟩* ::= (OR | XOR | AND)  
‘(’ *⟨logic\_statement⟩* ‘,’ *⟨logic\_statement⟩* ‘)’

*⟨comparison⟩* ::= (IS\_EQUAL | IS\_LESS | IS\_GREATER)  
‘(’ *⟨arithmetic\_statement⟩* ‘,’ *⟨arithmetic\_statement⟩*  
‘)’

*⟨arithmetic\_statement⟩* ::= *⟨arithmetic\_func\_1arg⟩*  
| *⟨arithmetic\_func\_2arg⟩* | *⟨number⟩*

*⟨arithmetic\_func\_1arg⟩* ::= (ABS | CELL | FLOOR | SIGN  
| RANDOM | ROUND) ‘(’ *⟨number⟩* ‘)’

*⟨arithmetic\_func\_2arg⟩* ::= (ADD | MULTIPLY | DIVIDE  
| SUBTRACT | MAX | MIN )  
‘(’ *⟨number⟩* ‘,’ *⟨number⟩* ‘)’

*⟨number\_int⟩* ::= *⟨digit⟩* | *⟨digit⟩* *⟨number\_int⟩*

*⟨number⟩* ::= [‘-’]*⟨number\_int⟩*[‘.’*⟨number\_int⟩*]

*⟨action\_statement⟩* ::= *⟨command\_identifier⟩* ‘(’ ‘)’

*⟨command\_identifier⟩* ::= *⟨character⟩*  
| *⟨command\_identifier⟩* (*⟨character⟩* | *⟨digit⟩*)

*⟨event\_statement⟩* ::= *⟨event\_identifier⟩* ‘(’ ‘)’

*⟨event\_identifier⟩* ::= *⟨character⟩*  
| *⟨event\_identifier⟩* (*⟨character⟩* | *⟨digit⟩*)

*⟨character⟩* ::= 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 | \_

*⟨digit⟩* ::= 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

tide[slobmyS ]ecruos tide | tide[tuoyaL dna erurtcrtS .B si lanimretnon trats ehT .gnitupmoc ni segaunal fo xatnys sserpxe ot euqinhcet noitaton a si )trohs rof FNB ro )FNB( mroF lamroN sukcaB sa nwonk osla( mroF ruan-sukcaB hcræes ot pmu] noitagivan ot pmu] gnivloS melborP | ÁÁÁ ÁgnikrowteN dna sesabataD ,smetsyS gnitarepO ,gnimmargorP ,gnivloS melborP | ÁÁÁÁÁÁÁQA | ÁÁÁÁ9002 gnitupmoC level-A < dlrow nepo na rof skoob nepo ,skoobikiW morF .rammarg suougibma na si gniwollof ehT .tupni dilav a si tupni hcae rehtehw etats ,sesserdda tuoba evoba elpmaxe eht morf FNB eht gnisU ]ecruos tide | tide[snoitseuQ ecitcarP .snoitauque elpmis gnivlos yb seman dnib ot desu eb nac gnihtam nrettaP T .>S< si lobmys trats ehT .dilav si nettirw si taht xatnys fi es ot desu eb nac dna stsil ni tup si noisxe serpehT ?noitatneserper laitneuges eht revo secqes fo noitatneserper deknil eht fo egatnavda tnatropmi na si W .aa gnirts rof seert esrap tnereffid owt wohs ot secifus ti a | >S< a | a >S< =: >S< .era yeht ereH .dnatsrednu ot tlucciffid yrev si noitmfed ehT .sacneugesnoc elbissoP .tudo dial eb dluow FNB sserdda eht woh wohs ot egamI nA >gnirts< =:;>emaN< >gnirts< =:;A>yrtnuoC< >gnirts< =:;A>emaN ytiC< >gnirts< =:;A>emaN nwoT< >gnirts< =:;A>edoC teertS< >gnirts< =:;A>xiferP ytiC< >gnirts< =:;A>epyT teertS< >rebmun esuoH< >tigid< | >tigid< =:;>rebmun esuoH< >tigid< | >retcarah< =:;>rebmun tallF< >epyT teertS< >emaN< =:;A>emaN teertS< >tigid< >tigid< >xiferP ytiC< | >tigid< >xiferP ytiC< =:;>edoC aerA< >edoC teertS< >edoC aerA< =:;A>edoctoP< >edoC tsoP< >yrtnuoC< >emaN ytiC< >emaN teertS< >rebmun esuoH< | >edoctoP< >yrtnuoC< >emaN ytiC< >emaN nwoT< >emaN teertS< >rebmun andH< =:;A>sserdA< sserdA emoH a fo nwodkaerB mroF ruan-sukcaB etaerc ot xatnys eht nwod gnikaerb si erurtcurts FNB ehT ,elpmaxe siht ni ]ecruos tide | tide[elpmæE .gnirts ytpme eht rof and gnisu ma I .suougibma si rammarg FNB gniwollof eht taht wohS wohS otsE .aicneuces al ed oidem ne serolav rida;Aa ed dadlibisop al omoc .sajatnev sarto yaH .n]Atse ol on ()()()y () orep ,odarbiliuqe jAtse ))()(( ,olpmeje roP .elbisiv anretni arutcurtse anu eneit on euq rolav nu se elpmis rolav nU F .opmeit le noc naibmac euq sacits]Aretcarac eneit euq leuqa se ojelpmoc rolav nU T .senoiserpxe satreic ed n^Aicalave ed odinifedni nedro nu omoc ,sadinifed etnemaicrap sacits]Aretcarac renet elbisopmi sE .sadarbiliuqe n^@tse euq ahcered y adreiuqz ed sisetn^@Arap ed saicneuces arap FNB acit;]Amarg anu ebircsE c b c | | F a S a F / / F / / F / / S a F / / / | / \ / S c | >F< a =: >F< b | >S< a >F< =: >S< .oipicnirp la serolav odneida;Aa saicneuces sal rednetxe lic;]Af sE ?n^Aicinifed omoc n^Aicacilpa anu razillitu ed saicneucesnoc sal na]Ares sel;]AuC;A .ralgerra edeup es on .n^Aicatnemelpmi al ne rorre nu yah iS .serodalipmoc nos n^Aicamargorp ed sejaugnel ed senoicatnemelpmi sal sadoT F ?]6,5,4,3[ = y:;)1+x( senortap ed aicnedicnioc ed n^Aicauce al arap y e x arap n^Aiculos anu se I;]AuC;A e | >B< ) >B< ( =: >B< .setnatropmi sajatnev nos selaudividni satsil sal arap airomem ed sotsiuqer sol ed n^Aiccuder al y oirotaela osecca IE .sodadina neib n]Atse y nedicnioc sisetn^@Arap sol is adarbiliuqe jAtse sisetn^@Arap ed aicneuces anU .>S< se oicini ed olobm]As le ednod ,acit;]Amarg etneiugis al n^Ages bacacaa anedac al arap ocitc;]Atnis sisil;]Ana ed lobr;]A nu rartsoM a a | | S a a S / / / S S .amargorp nu ne amexel ocin^A nu res eleus elbairav ed erbmon nU F ?on ^@]uq roP;A .n^Aicnevoc al noc n^Aicarapmoc ne lamron amrof ne on ^ acifingis ruan-sukcaB .^2 o]jh n^Aiserpxe al o 1 o]jh n^Aiserpxe al omoc enifed es erdap n^Aiserpxe al .onall e]augneI ne >2 o]jh n^AiserpxE< | >1 o]jh n^AiserpxE< =:;A>erdap n^AiserpxE< .etneiugis al se solobm]As sotsse nenospid es eue ne amrof al .a]Arogetac ed serbmon >< 'o' | omoc enifed es' =:;A solobm]As setneiugis sol odnazillitu atneserper es FNB ]ecruos tide ruan-sukcaB ruan-sukcaB T .sasoc sarto rop adamrof jAtse ajih n^Aiserpxe anu y ajih n^Aiserpxe anu renet ebod ,erdap n^Aiserpxe al ramrof arap euq It is a notation to give precise definitions of syntax. In addition, the linked representation allows the exchange of structures, which sometimes reduces memory requirements greatly. The integers of F typically considered complex values. F A data structure that changes over time is not considered a value. All compilers translate into the language of the machine. : = | () | The next is an unequivocal grammatic for the same. T An implementation of a programming language is not a proper definition of the language. T A Token can only have an associated Lexema. What is an important advantage of the sequential representation of the sequences on the linked representation? 15 Jubilee Lane Blackpool England FY98 5ER 15 Jubilee Lane Blackpool England FY423 5ER 32 Parkstone Road Syston England Leicester LE7 3ZY Write a C clearly readable to the left of each one of the following that is true, and a legible flower F to the left of each one that is false. X = 2 E and = [4,5,6]. [4,5,6].

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