

To Do lists incrementally

Difference list $A - B$ as “ A up to B ” (with remainder B to do next)

$$(A - B) + (B - C) \approx A - C$$

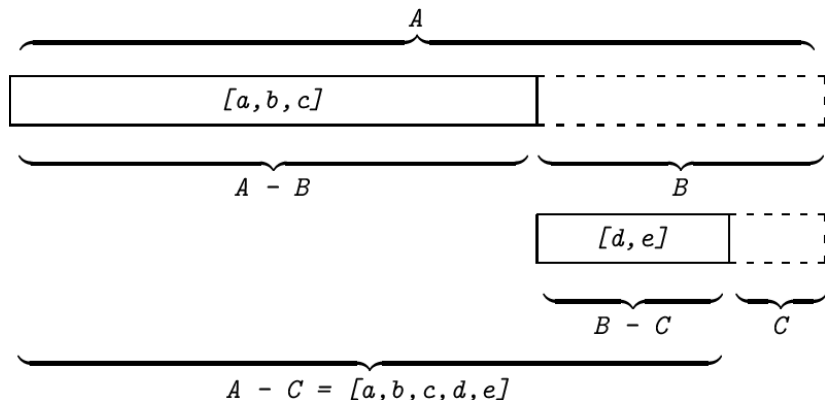


Figure from A. Csenki

DCG notation: LPN Chap 7 Exercises

```
s --> foo,bar,wiggle.
```

```
% s(A,B) :- foo(A,C), bar(C,D), wiggle(D,B).
```

```
foo --> [choo].
```

```
% foo(A,B) :- A=[choo|B].      % foo([choo|B],B).
```

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```
s --> foo,bar,wiggle.
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```
% s(A,B) :- foo(A,C), bar(C,D), wiggle(D,B).
```

```
foo --> [choo].
```

```
% foo(A,B) :- A=[choo|B].      % foo([choo|B],B).
```

```
s2 --> [a,b].
```

```
% s2(A,B) :- A=[a,b|B].      % s2([a,b|B],B).
```

```
s2 --> [a],s2,[b].
```

```
% s2(A,B) :- A=[a|C], s2(C,D), D=[b|B].
```

```
% s2([a|C],B) :- s2(C,[b|B]).
```

DCG notation: LPN Chap 7 Exercises

```
s --> foo,bar,wiggle.  
% s(A,B) :- foo(A,C), bar(C,D), wiggle(D,B).  
  
foo --> [choo].  
% foo(A,B) :- A=[choo|B].      % foo([choo|B],B).  
  
s2 --> [a,b].  
% s2(A,B) :- A=[a,b|B].      % s2([a,b|B],B).  
  
s2 --> [a],s2,[b].  
% s2(A,B) :- A=[a|C], s2(C,D), D=[b|B].  
% s2([a|C],B) :- s2(C,[b|B]).  
  
s3 --> [].  
% s3(A,B) :- A=B.      % s3(A,A).  
  
s3 --> [a],s3,[b,b].  
% s3(A,B) :- A=[a|C],s3(C,D),D=[b,b|B]).  
% s3([a|C],B) :- s3(C,[b,b|B]).
```