

## CFL-II

Friday, June 3, 2022 3:40 PM

⇒ Dyck-language : Balanced "[ ]" → Kleene Closure.

⇒ IFDS,  $\rightsquigarrow$  Interprocedural. finite, distributive, subset problem.  
Sharir-Pnueli framework.

IDE  $\rightsquigarrow$  Interprocedural Distributive Environment.

CFL  $\Rightarrow$  chain program

$\Rightarrow$  dataflow fact is set of environment.

$f$ : environment transition function.

variable propagation.  $\rightarrow$  through chain.

$\Rightarrow$  interconvertible to Set Constraints Problem.  $\rightsquigarrow$

David Melski & Thomas Reps. Dec 1997.

<https://research.cs.wisc.edu/wpis/papers/pepm97.pdf>