

```

Zip2_{ } = Identity;
Zip2_{vs_} @ {  $\mathcal{F}_$ ,  $\mathbb{E}[Q_$ ,  $P_{___}]$  } :=
PP_{zip2} @ Module [ {  $F$ ,  $Y$ ,  $u$ ,  $v$  },
   $F = \text{Table}[\text{If}[\text{Wt}[u] + \text{Wt}[v] == \$n,$ 
     $\text{CF}[\partial_{F[u], F[v]} \mathcal{F}], \emptyset], \{u, vs\}, \{v, vs\}];$ 
   $Y = \text{Table}[\partial_v Q, \{v, vs\}] /.$ 
  AlsoUpper @ Table [ $v \rightarrow \emptyset$ ,  $\{v, vs\}];$ 
   $\text{CF} /@ (\{ \mathcal{F}, \mathbb{E}[Q - Y \cdot vs + Y \cdot F \cdot Y / 2, P] \} /.$ 
    AlsoUpper @ Thread [ $vs \rightarrow vs + F \cdot Y]$ )
]

```