

The grammar indicates all the binary number which is divisible by 4. The grammar would only accept those binary numbers starting with 1.

Rules	Attribute Grammars
number \rightarrow finalbit list doublezero	finalbit.position = list.position + 1, number.value = finalbit.value + list.value
number \rightarrow 0	number.value = 0
list ₀ \rightarrow 1 list ₁	list ₀ .position = list ₁ .position + 1, list ₀ .value = $2^{\text{list}_0.\text{position}}$ + list ₁ .value
list ₀ \rightarrow 0 list ₁	list ₀ .position = list ₁ .position + 1, list ₀ .value = list ₁ .value
list $\rightarrow \epsilon$	list.position = 1, list.value = 0
finalbit \rightarrow 1	finalbit.value = $2^{\text{finalbit.position}}$
doublezero \rightarrow 00	doublezero.value = 0, doublezero.position = 1 <i>/*this is irrelevant anyways*/</i>