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| EX4 | Let us first define a suitable grammar for the Pauguepe. The associated SDD must be suitable for bottom-up parsing, so the grammar must be concieved to have all synthesized attributes.

To implement the associativity and precedence rules we an follow the standard approach. To define the list of expressions it is better to use a right recursion. A suitable grammer is the following: $S \rightarrow E, S \mid E$ ~ (right-recursive list) -> (E is right-recursive, so the operator & will be right-E T & E | T T-> F + T | F anociative. Horeover, since T will generate the poperator, then F - D id | mum | (E) | D will have precedence on (S) oiden for T, O U. 7. t. F. Let us suppose that the tokens id and num have are attribute "size" that is already alcalated by the lisical analyzer. Let us define ou altribute "size", synthesized, for the nou-terminal symbols F, T, E. They hold the size of the corresponding sub-trees. In case of mon-terminal S,

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