There are number of phases associated with the construction of symbols and their associated values into the insurtion of symbols and their associated values into the trable and the referencing phase accepses these values from the trable. A record is deleted from the gymbol trable when the peopley rules of the language determine the object can so longer be referenced. The pymbol trable is referenced during memory allocation and code generation. Therefore, the gymbol trable should repide in the main memory during the most of the processing, so, the constraints which much be considered in the design of symbol trables are processing time and memory the design of symbol trables are processing time and memory the space.

Capabilities of a fymbol table manager:

if 9t should be able to enter the symbols in the table and return the address of the entries.

is It should allow to search the symbol table to check whether a particular symbol already exist in the table. If it exists, it should return the address of the entry. It should be able to delete arbitrary element and groups of element from the table, ex., it should be able to delete all the social variables associated with a particular block series in an efficient manner.

ivy The search time must be as fast as possible. Therefore, the entire table should be in memory.