C supports 4 storage class specifiers:

1. extern
2. static
3. register
4. auto

Below is discussed differences between extern, static and register:

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| extern | static | register |
| 1.Extern is used when a particular file needs to access a variable from another file or from the same file but defined after that variable was declared;  2. Extern specifier is applicable to objects with external linkage, that is functions and global variables, be it the same or in another file. | 1.Static is used when it is needed to keep a value-assigned-variable to retain it’s value in a file (global static) or in a function (local static).  2. Static specifier is applicable to scoped variables or global variables in the same file; | 1.Register is used to store variables in register, where accessing is much faster than normal memory access.    2. One can only apply the register specifier to local variables and to formal parameter of functions. |