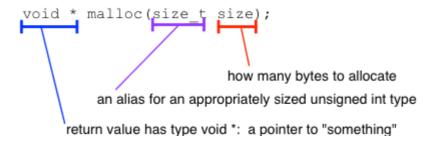
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malloc

malloc

The most basic function for dynamic memory allocation is called **malloc**(which performs memory allocation). Calling this function is how you allocate memory dynamically. The malloc function, shown in the figure below takes one argument telling it how much memory is needed and it returns a pointer to that allocated memory in the form of a void *. Many beginning programmers are intimidated by the concept of a void *, but you should not be! Recall that a void * just means a pointer, but we do not know what type of thing it points to. If malloc instead returned something more specific (for example, an int *), we would need a new version of malloc for every data type. This would be both unwieldy and (in the context of user-defined data types) impossible. Just remember that you can assign a void *to any other pointer type—so just assign the return result of malloc to whatever pointer you want to initialize.





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