Referencing Nonexistent Variables

Forgetting that local variables disappear when a function returns

```
int *foo () {
    int val ssignment Project Exam Help
    return &valtps://powcoder.com
}

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```

Freeing Blocks Multiple Times

Nasty!

Referencing Freed Blocks

Evil!

```
x = malloc(N*sizeof(int));
    <manipulate x>
free(x); Assignment Project Exam Help
    ...
y = malloc(M*sizeof/(jot))Ooder.com
for (i=0; i<M; i++)
    y[i] = x[i]Add WeChat powcoder</pre>
```

Failing to Free Blocks (Memory Leaks)

Slow, long-term killer!

```
foo() {
   int *x = malloc(N*sizeof(int));
        Assignment Project Exam Help
        return;
}

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```

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Failing to Free Blocks (Memory Leaks)

Freeing only part of a data structure

```
struct list {
   int val;
   struct liAssignment Project Exam Help
};
                https://powcoder.com
foo() {
   struct list *Aeth Weathor (size of struct list));
  head->val = 0;
  head->next = NULL;
   <create and manipulate the rest of the list>
   free (head) ;
   return;
```