# **Referencing Nonexistent Variables**

Forgetting that local variables disappear when a function returns

```
int *foo (); {signment Project Exam Help

return &v https://eduassistpro.github.io/
}

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```

## **Freeing Blocks Multiple Times**

#### Nasty!

## **Referencing Freed Blocks**

#### ■ Evil!

# Failing to Free Blocks (Memory Leaks)

Slow, long-term killer!

```
foo() {
   int *x = malloc(N*sizeof(int));
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        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://eduassistpro.github.io/
foo() {
   struct list *Acti Weaharedu_assistrpco list));
  head->val = 0;
  head->next = NULL;
   <create and manipulate the rest of the list>
   free (head) ;
   return;
```