

**Returns**

The **free** function returns no value.

**7.10.3.3 The malloc function****Synopsis**

```
#include <stdlib.h>
void *malloc(size_t size);
```

**Description**

The **malloc** function allocates space for an object whose size is specified by **size** and whose value is indeterminate.

**Returns**

The **malloc** function returns either a null pointer or a pointer to the allocated space.

**7.10.3.4 The realloc function****Synopsis**

```
#include <stdlib.h>
void *realloc(void *ptr, size_t size);
```

**Description**

The **realloc** function changes the size of the object pointed to by **ptr** to the size specified by **size**. The contents of the object shall be unchanged up to the lesser of the new and old sizes. If the new size is larger, the value of the newly allocated portion of the object is indeterminate. If **ptr** is a null pointer, the **realloc** function behaves like the **malloc** function for the specified size. Otherwise, if **ptr** does not match a pointer earlier returned by the **calloc**, **malloc**, or **realloc** function, or if the space has been deallocated by a call to the **free** or **realloc** function, the behavior is undefined. If the space cannot be allocated, the object pointed to by **ptr** is unchanged. If **size** is zero and **ptr** is not a null pointer, the object it points to is freed.

**Returns**

The **realloc** function returns either a null pointer or a pointer to the possibly moved allocated space.

**7.10.4 Communication with the environment****7.10.4.1 The abort function****Synopsis**

```
#include <stdlib.h>
void abort(void);
```

**Description**

The **abort** function causes abnormal program termination to occur, unless the signal **SIGABRT** is being caught and the signal handler does not return. Whether open output streams are flushed or open streams closed or temporary files removed is implementation-defined. An implementation-defined form of the status *unsuccessful termination* is returned to the host environment by means of the function call **raise(SIGABRT)**.

**Returns**

The **abort** function cannot return to its caller.