alloc1 実行結果

prog3-1.c

code

```
#include <stdio.h>
#include <stdlib.h>
int main() {
   int *array;
   int num, i;
   printf("num > ");
   scanf("%d", &num);
   array = (int *)malloc(num * sizeof(int));
   if (array == NULL) {
        printf("Memory allocation failed\n");
        return 1;
   for (i = 0; i < num; i++) {</pre>
        array[i] = 7;
    for (i = 0; i < num; i++) {
        printf("%d ", array[i]);
   printf("\n");
   free(array);
    return 0;
```

result

Test 1 passed

入力:

```
5
```

出力:

```
num > 7 7 7 7 7
```

Test 2 passed

入力:

```
10
```

出力:

```
num > 7 7 7 7 7 7 7 7 7 7
```

- Passed: 2
- Failed: 0

sample103-1.c

code

```
#include <stdio.h>
#include <stdlib.h>
int main(void)
   char *str;
   int num, i;
   printf("num > ");
   scanf("%d", &num);
   str = (char *)malloc(sizeof(char)*(num+1));
   if(str==NULL) {
        printf("not allocated.\n");
        return 1;
    for(i=0; i<num; i++) {</pre>
        *(str+i) = 'a';
    *(str+i) = '\0';
   printf("str: %s\n", str);
   free(str);
   return 0;
```

result

Test 1 passed

入力:

```
10
```

出力:

```
num > str: aaaaaaaaaa
```

Test 2 passed

入力:

```
5
```

出力:

```
num > str: aaaaa
```

- Passed: 2
- Failed: 0

sample103-2.c

code

```
#include <stdio.h>

void show_range(int *ptr, int s, int e);

void show_range(int *ptr, int s, int e)
{
    int i;
    for(i=s; i<=e; i++) {
        printf("*ptr+%d: %d, ptr+%d: %p\n", i, *(ptr+i), i, ptr+i);
    }
}

int main(void)
{
    int test[5] = {80, 60, 55, 22, 75};
    printf("---show_range(test, 2, 4)---\n");
    show_range(test, 2, 4);
    printf("---show_range(test, 1, 3)---\n");
    show_range(test, 1, 3);
    return 0;
}</pre>
```

result

Test passed

入力:

出力:

```
---show_range(test, 2, 4)---
*ptr+2: 55, ptr+2: 0x7fff3256b018
*ptr+3: 22, ptr+3: 0x7fff3256b01c
*ptr+4: 75, ptr+4: 0x7fff3256b020
---show_range(test, 1, 3)---
*ptr+1: 60, ptr+1: 0x7fff3256b014
*ptr+2: 55, ptr+2: 0x7fff3256b018
*ptr+3: 22, ptr+3: 0x7fff3256b01c
```

Passed: 1Failed: 0