SHIN,CHAE UN (신채운) / 202135789

## Source codes & Comment

// 아래 네모 안에 코드를 복사하여 붙일 것

|  |
| --- |
| #define \_CRT\_SECURE\_NO\_WARNINGS  #include <stdio.h>  #include <string.h>  #include <stdlib.h>  /\*  name:Shin Chae Un  Date:12/2  Student number: 202135789  description:Make Stack Program  \*/  void push(int input); //functions  int pop();  int stack\_full();  int stack\_empty();  int top=-1;  int stack[10];  void main() {  int input; //loop for input and print stacks  for (int i = 0; i < 5; i++) {  printf("\nPlease type input : ");  scanf\_s("%d", &input);  push(input);  printf("Stack is ");  for (int j = 0; j <= top; j++) {  printf(" | %d | ", stack[j]);  }  }  pop();  printf("\n\n(After pop) Stack is "); //stack after pop  for (int j = 0; j <= top; j++) {  printf(" | %d | ", stack[j]);  }  }  void push(int input) {  if (stack\_full) {  stack[++top] = input;  }  }  int pop() {  if (stack\_empty) {  return stack[top--];  }  }  int stack\_full() {  if (top >= 10 - 1) { //stack is full  return 0;  }  else return 1;  }  int stack\_empty() {  if (top == -1) { //nothing in stack  return 0;  }  else return 1;  } |

## Inspect the program (testing)

// 자가 점검 후 네모 안에 v표시

**🗹** Check loop, if else, switch, function.

**🗹** Check variable initialization.

**🗹** Check pointers.

## Test cases & Output (Screenshots)

|  |  |
| --- | --- |
| # | [스크랜 샷 설명] |
|  | |

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## Source codes & Comment

// 아래 네모 안에 코드를 복사하여 붙일 것

|  |
| --- |
| #define \_CRT\_SECURE\_NO\_WARNINGS  #include <stdio.h>  #include <string.h>  #include <stdlib.h>  /\*  name:Shin Chae Un  Date:12/2  Student number: 202135789  description:Make Queue Program  \*/  void enqueue(int input); //functions  int dequeue();  int queue\_full();  int queue\_empty();  int front=0, back=-1;  int queue[10];  void main() {  int input; //loop for input and print stacks  for (int i = 0; i < 10; i++) {  printf("\nPlease type input : ");  scanf\_s("%d", &input);  printf("\nQueue is ");  for(int j = 0; j < 10; j++) {  if (queue[j] != -1 || queue[j] == NULL) {  printf("| %d |");  }  }  }  dequeue();  printf("After dequeue :"); //Queue after dequeue  for (int j = 0; j < 10; j++) {  if (queue[j] != -1 || queue[j] == NULL) {  printf("| %d |");  }  }    }  void enqueue(int input) {  if (queue\_full) {  queue[++back] = input;  }  }  int dequeue() {  if (queue\_empty) {  queue[front] = -1;  }  front++;  }  int queue\_full() {  int count=0;  for (int i = 0; i < 10; i++) {  if (queue[i] == -1 || queue[i] == NULL) {  count++;  }  }  if (count > 0)  return 0;  else return 1;  }  int queue\_empty() {  int count = 0;  for (int i = 0; i < 10; i++) {  if (queue[i] == -1 || queue[i] == NULL) {  count++;  }  }  if (count == 10)  return 0;  else return 1;  } |

## Inspect the program (testing)

// 자가 점검 후 네모 안에 v표시

**🗹** Check loop, if else, switch, function.

**🗹** Check variable initialization.

**🗹** Check pointers.

## Test cases & Output (Screenshots)

|  |  |
| --- | --- |
| # | [스크랜 샷 설명] |
| (유의사항: 전체 화면을 캡쳐 하지 말고, 실행 화면만 잘라 붙여 결과를 잘 확인할 수 있게 처리바람) | |