SHIN CHAE UN / 202135789

## Source codes & Comment

// 아래 네모 안에 코드를 복사하여 붙일 것

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| --- |
| #define \_CRT\_SECURE\_NO\_WARNINGS  #include <stdio.h>  #include <string.h>  #include <stdlib.h>  /\*  name:Shin Chae Un  Date:11/10  Student number: 202135789  description:obtain memory for three separate struct NODE data nodes  Assign the address of node1 to next of node0; and address  Of node2 to next of node1  Assign any integer to each of the three keys  Assign NULL to next of node2  \*/  struct NODE { //set struct  int key;  struct NODE\* next;  };  void main() {  struct NODE\* node; //dynamic memory allocation    node = (struct NODE\*)malloc(3\*sizeof(struct NODE));    if (node == NULL) { //defensive coding  printf("malloc failed");  exit(1);  }  if (node != NULL) { //set next and key  (node[0]).next = &node[1];  (node[1]).next = &node[2];  (node[2]).next = NULL;  (node[0]).key = 100;  (node[1]).key = 250;  (node[2]).key = 467;  }  if(node != NULL)  free(node); //free node  } |

## 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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// 아래 네모 안에 코드를 복사하여 붙일 것

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| --- |
| /\*  name:Shin Chae Un  Date:11/10  Student number: 202135789  description:three nodes  atart from node[0]  if found,print “search key found”  If not found,print “search key not found”  \*/  struct NODE { //set struct  int key;  struct NODE\* next;  };  void main() {  struct NODE\* node; //dynamic memory allocation    node = (struct NODE\*)malloc(3\*sizeof(struct NODE));    if (node == NULL) {  printf("malloc failed");  exit(1);  }  if (node != NULL) { //set keys and next  (node[0]).next = &node[1];  (node[1]).next = &node[2];  (node[2]).next = NULL;  (node[0]).key = 100;  (node[1]).key = 250;  (node[2]).key = 467;  }  struct NODE\* ptr; //set from node[0]  ptr = &node[0];  int find\_key = 250;  int find = 0;  while (ptr != NULL) {  ptr = (\*ptr).next;  if ((\*ptr).key == find\_key) {  find = 1;  break;  }  }  if (find == 1) {  printf("search key found");  }  else printf("search key not found");  } |

## Inspect the program (testing)

// 자가 점검 후 네모 안에 v표시

🗹 Check loop, if else, switch, function.

🗹 Check variable initialization.

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## Test cases & Output (Screenshots)

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| # | [스크랜 샷 설명] |
|  | |