문항 선택

1 2 3

한 문제씩 검토

검토 완료

강의실 홈

강의정보

강의계획서

성적/출석관리

온라인출석부

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기타 관리

학습활동

기초컴퓨터프로그래밍 **[Midterm-B:60]**

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문제 1
풀이 완료
총 20.00 점

Complete the source code below to make a program that meets the following requirements.

- The value of the variable n is the number of valid elements in the array a.
- The program is going to remove one element from the array a and replace it with the last (valid) element of the array. After the replacement, the number of valid elements of the array will be decreased by 1.
- If the element to be removed is the last element, no replacement takes place, but just the number of valid elements needs to be decreased by 1.
- The order of the element to be removed is read from user input into the variable j. If the input value is larger than the number of valid elements or less than 1, it will be set to the number of valid elements.
- The program should print out all valid elements in sequence after removing

The followings are some example execution results

Execution Result #1

```
2
11 55 33 44
```

Execution Result #2

```
3
11 22 55 44
```

Execution Result #3

```
6
11 22 33 44
```

```
#include <stdio.h>

int main(void)
{
    int a[10]={11,22,33,44,55};
    int i, j, n=5;

    scanf("%d", &j);

    // Enter your code here

    for(i=0;i<n;++i)
        printf("%d ", a[i]);
    printf("\n");

    return 0;
}
```

```
#include <stdio.h>

int main(void)
{
    int a[10]={11,22,33,44,55};
    int i, j, n=5;

    scanf("%d", &j);

    if(1<j&&j<5){
```

댓글:

문제 2
풀이 완료
총 20.00 점

Make a function named "is_prime()" that determines whether an integer given as a function parameter n is prime number or not.
The performance of your is_prime() function does not matter in this problem.
But it should be correct.

The expected execution result is shown below.

Execution Result

```
************************************************
************************************************
# of Prime numbers between 1 and 10000 : 1229
The maximum Prime number <= 10000 : 9973
```

DO NOT modify the main() function

Submit only the source code of your is_prime() function.

```
#include <stdio.h>

#define MAX_NUM 100000
int is_prime(int n)
{
    // Enter your Code Here
    return 1;
}

int main(void)
{
    int n=0, nprime=0, max_prime=0;

    printf("********************************************
*******\n");

    for (n=1; n<=MAX_NUM; n++)  {
        if (is_prime(n)) {
            nprime++;
            max_prime = n;
        }
        if (n%(MAX_NUM/50)==0) printf("*");
    }
    printf("\n# of Prime numbers between 1 and %d : %d
\n", MAX_NUM, nprime);
    printf("The maximum Prime number <= %d : %d\n", MAX
_NUM, max_prime);
    return 0;
}
```

```
#include <stdio.h>
#include <time.h>

#define MAX_NUM 10000
int is_prime(int n)
{
    int i;
    if(n==1) return 0;
    for(i=2;i*i<=n;i++){
```

댓글:

문제 3
풀이 완료
총 20.00 점

We want to build a program that prints out every integer which is either a multiple of x or a multiple of y in the range of b to e, where x, y, b and e are int type variables declared in the source code below. We also want to get and to print out the sum of the integers as shown in the following example execution results.

Execution Result #1

```
1 10
2 3
2 3 4 6 8 9 10
sum == 42
```

Execution Result #2

```
20 100
33 47
33 47 66 94 99
sum == 339
```

Complete the source code below properly and submit your main() function. You can use several statements for the blanks. But you are not allowed to add additional variables or functions.

```
#include <stdio.h>

int main(void)
{
    int b, e, i;
    int x, y, s=0;

    scanf("%d%d", &b, &e);
    scanf("%d%d", &x, &y);
    for([1]) {
        [2]
    }
    printf("\nsum == %d\n", s);

    return 0;
}
```

```
#include <stdio.h>

int main(void)
{
    int b, e, i;
    int x, y, s=0;

    scanf("%d%d", &b, &e);
    scanf("%d%d", &x, &y);
    for(i=b;i<=e;i++) {
```

댓글: