

Question 1

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Berikut adalah potongan program untuk membaca data dan memasukkan ke dalam array 2 dimensi berukuran N x M:

```
for (int i = 0; i < N; i++)
for (int j = 0; j < M; j++)
{
    scanf("%d", &nilai);
    arr[i][j] = nilai;
}
```

Untuk itu, deklarasi dan definisi variabel array tersebut yang salah adalah

- ☐

```
int **arr = (int **)malloc(r*sizeof(int *));
for (i=0; i<r; i++)
    arr[i] = (int *)malloc(c*sizeof(int));
```
- ☐

```
int arr[N][M]={5};
```
- ☐

```
int *arr[N];
for (int i=0; i<N; i++)
    arr[i] = (int *)malloc(M*sizeof(int));
```
- ☐

```
int arr[N][M];
```
- ☒

```
arr = (int *)malloc(N * M * sizeof(int));
```

Question 2

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Return type dari fungsi malloc() adalah



void *



void **



int *



int **



void

No need to cast return value of `malloc` as its return type is `void*`.

33

Can someone explain why do some programmers use `(char *)` in front of the malloc?

They are doing wrong (most probably) by casting it (in good programmers opinion).

As [wiki](#) says:

`malloc` returns a void pointer (`void *`), which indicates that it is a pointer to a region of unknown data type. **The use of casting is required in C++ due to the strong type system, whereas this is not the case in C.** The lack of a specific pointer type returned from `malloc` is type-unsafe behavior according to some programmers: `malloc` allocates based on byte count but not on type. This is different from the C++ [new operator](#) that returns a pointer whose type relies on the operand. One may "cast" this pointer to a specific type:

```
int *ptr;
ptr = malloc(10 * sizeof (*ptr));           /* without a cast */
ptr = (int *)malloc(10 * sizeof (*ptr));     /* with a cast */
ptr = reinterpret_cast<int *>(malloc(10 * sizeof (*ptr))); /* with a cast, for C++ */
```

Question 3

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Library dari fungsi malloc() tersimpan di dalam header file, yaitu

- ☐ mem.h
- ☒ ~~stdlib.h~~
- ☐ math.h
- ☐ stdio.h
- ☐ memory.h

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  SQL CONSOLE  GITLENS

Latihan1.c:3:1: note: include '<stdlib.h>' or provide a declaration of 'malloc'
   2 | #include <stdio.h>
+++ |+#include <stdlib.h>
   3 |
Latihan1.c:8:16: warning: incompatible implicit declaration of built-in function 'malloc' [-Wbuiltin-declaration-mismatch]
   8 |     d1 = (int*)malloc(n*sizeof(int));
      |                  ^~~~~~
Latihan1.c:8:16: note: include '<stdlib.h>' or provide a declaration of 'malloc'
```

Question 4

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Instruksi yang salah untuk membuat array 1 dimensi berukuran n yang setiap elemennya diinisialisasi dengan nilai 0 adalah

☐

```
int *dt;  
dt=(int*)malloc(n*sizeof(int));  
memset(dt, 0, (n*sizeof(int)));
```

☒

```
int *dt={0};
```

☐

```
int dt[n]={0};
```

☐

```
int *dt;  
dt=(int*)malloc(n*sizeof(int));  
memset(dt, 0, (n*sizeof(dt[0])));
```

☐

```
int *dt;  
dt = (int*)calloc(n, sizeof(int));
```

Question 5

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Perhatikan program berikut:

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

int main()
{
    int row = 3, col = 4, i, j, count;

    int (*arr)[col] = calloc(row, sizeof *arr);

    count = 0;
    for (i = 0; i < row; i++)
        for (j = 0; j < col; j++)
            arr[i][j] = ++count;

    printf("%d\n", arr[1][2]);

    free(arr);

    return 0;
}
```

Output dari program tersebut adalah (Tuliskan jawaban Anda dengan tepat).

Answer:

Question 6

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Berikut adalah kerangka program untuk membaca matrik 2 dimensi:

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

int* readMatrix(int *r, int *c);

int main()
{
    int row,col;
    int *dt;
    dt=readMatrix(&row, &col);
    .....
    .....
    return 0;
}
```

Implementasi fungsi readMatrix() yang tepat adalah

☐

```
int* readMatrix(int *r, int *c)
{
    int nilai;
    int *mat;
    scanf("%d %d", r, c);
    mat=(int*)malloc(*r * *c * sizeof(int));
    for (int i=0; i<*r; i++)
    {
        for(int j=0; j<*c; j++)
        {
            scanf("%d", &nilai);
            mat[i][j]=nilai;
        }
    }
    return mat;
}
```

☐

```
int* readMatrix(int *r, int *c)
{
    int nilai;
    int *mat;
    scanf("%d %d", r, c);
    mat=(int*)malloc(r*c*sizeof(int));
    for (int i=0; i<*r; i++)
    {
        for(int j=0; j<*c; j++)
        {
            scanf("%d", &nilai);
            mat[i*(*c)+j]=nilai;
        }
    }
    return *mat;
}
```

Time left 0:37:

☐

```
int* readMatrix(int *r, int *c)
{
    int nilai;
    int *mat;
    scanf("%d %d", r, c);
    mat=(int*)malloc(r*c*sizeof(int));
    for (int i=0; i<*r; i++)
    {
        for(int j=0; j<*c; j++)
        {
            scanf("%d", &nilai);
            mat[i*(*c)+j]=nilai;
        }
    }
    return &mat;
}
```

☐

```
int* readMatrix(int *r, int *c)
{
    int nilai;
    int *mat;
    scanf("%d %d", r, c);
    mat=(int*)malloc(r*c*sizeof(int));
    for (int i=0; i<r; i++)
    {
        for(int j=0; j<c; j++)
        {
            scanf("%d", &nilai);
            mat[i][j]=nilai;
        }
    }
    return mat;
}
```

Time left 0:37:26

☐

```
int* readMatrix(int *r, int *c)
{
    int nilai;
    int *mat;
    scanf("%d %d", r, c);
    mat=(int*)malloc((*r)*(*c)*sizeof(int));
    for (int i=0; i<*r; i++)
    {
        for(int j=0; j<*c; j++)
        {
            scanf("%d", &nilai);
            mat[i*(*c)+j]=nilai;
        }
    }
    return mat;
}
```

Question 7

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Instruksi:

```
ptr=calloc(m,n);
```

setara dengan

☐

```
ptr=malloc(m*n);  
memset(ptr, n, m);
```

☐

```
ptr=malloc(m*n);  
memset(ptr, m, n);
```

☐

```
ptr=malloc(m,n);  
memset(ptr, m, n);
```

☐

```
ptr=malloc(m*n);  
memset(ptr, 0, m*n);
```

☐

```
ptr=malloc(n,m);  
memset(ptr, n, m);
```

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Perhatikan program berikut:

```
#include <stdio.h>
void print(int *arr, int m, int n)
{
    int i, j;
    for (i = 0; i < m; i++)
        for (j = 0; j < n; j++)
            printf("%d ", *((arr+i*n) + j));
    printf("\n");
}

int main()
{
    int arr[3][4] = {{1, 2, 3, 4}, {5, 6, 7}, {8, 9}};
    print((int *)arr, 3, 4);
    return 0;
}
```

Output dari program tersebut adalah

Output dari program tersebut adalah

- ☐ 1 2 3 4 5 6 7 0 8 9 0 0
- ☐ 1 2 3 4 5 6 7 8 9 0 0 0
- ☐ 1 2 3 4 5 6 7 8 9 1 2 3
- ☐ Tidak ada output, karena program mengalami error pada instruksi:
print((int *)arr, 3, 4);
- ☐ 1 2 3 4 5 6 7 8 9 10 11 12

Question 9

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Mana saja fungsi-fungsi dalam pemrograman C yang berkaitan dengan alokasi memori secara dinamis?

- ☐ calloc()
- ☐ malloc()
- ☐ clear()
- ☐ realloc()
- ☐ stdlib()
- ☐ memory()
- ☐ free()
- ☐ memset()

Question 10

Not yet answered

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Diantara berikut, yang menimbulkan error untuk mendeklarasikan variabel array 2 dimensi adalah

☐

```
#define N 100  
int *arr[N];
```

☐

```
int **arr;
```

☐

```
int arr[][];
```

☐

```
#define N 100  
int arr[N][N];
```

☐

```
#define N 100  
int *arr[][N]={1,2,3,4,5,6,7,8,9};
```