

[This is not homework. You do not need to submit anything for this.
Just think about the questions below and try answer to the questions.]

static memory allocation vs dynamic memory allocation

when we can create and use arrays.

example of static memory allocation for using array:

```
int x[10];  
x[0]=3;  
x[2]=7;
```

example of dynamic memory allocation for using array:

```
// C-style  
int* x;  
x = (int*)malloc(sizeof(x)*10);  
x[0]=3;  
x[2]=7;  
...  
free(x);  
  
// C++ style  
int* y;  
int n=10;  
y = new int[n];  
y[0]=3;  
y[2]=7;  
...  
delete[] y;
```

Question: What are

- 1. advantages of the static memory allocation for using array:**
- 2. disadvantages of static memory allocation for using array:**
- 3. advantages of dynamic memory allocation for using array:**
- 4. disadvantages of dynamic memory allocation for using array:**