

Exercise 5a - Dynamic memory



Beskrivning

Dynamic memory are commonly used in c++ programs. A good situation to use dynamic memory is when the behavior of the program is not known at start and the allocation for memory will depend on user input.

Memory are allocated with the operator *new* and when no longer used it shall be released with the command *delete*

Below example will illustrate a situation where we ask the user for input and allocate data based on that input

```
int * foo;

int nbr_of;

cout << "How many do you want?";

cin >> nbr_of;

foo = new int [nbr_of];
```

And at the end of the program, we need to release the memory

```
delete[] foo;
```

Note that we have the “[]” after the delete operand, this is because we have an array with data.

Exercise 5a

- Create a program that asks the user for a number (integer)
- save the number and allocate an integer array with the given number of integers
- Print out all objects in the array
- Free the data at the end of the program
- You will notice that the printed values are random values and not “0 indexed”

Information

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