CS 355

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HW #6

07/16/2021

1. Decimal values waste memory space because when an integer value is stored into a decimal waste, there can four binary bits stored in one decimal digit.
2. The significant justification in -> operator is the writability where it is more simple to write p -> q then to write (\*p).q when using C or C++.
3. **Raw Major Order**:

Location (a[I,j,k]) = Address (a[min(1), min(2), min(3)]) + (i-min(1)xsize(3) + (j-min(2))xsize(2) + (k-min(3)))

**Column Major Order**:

Location(a[I,j,k]) = Address (a[min(1), min(2), min(3)]) + (k-min(1)xsize(3) + (j-min(2))xsize(2) + (i-min(1)))

1. Implicit heap storage for java helps with dangling objects while in C++, the explicit heap storage creates dangling pointers.

The one issue with the implicit heap storage is that it can be a bit confusing for new programmers to use.

1. Static type checking is better in the sense that anything done at compile time will have better efficiency.
2. int[10]Matrix;

int[10]Matrix

int[10]resultMatrix;

int input;

cout<<”Matrix”;

for(int i=0; i<10;)

{

cout<<”Enter Number”<<i+1<<”:”;

cin>>input;

Matrix[i]=input

cout<<endl;

}

Cout<<”Matrix2”;

for(int i=0; i<10; i++)

{

}

Input=Matrix[i]\*Matrix2[i];

resultMatrix[i]=input;

cout<<resultMatrix[i]<<” “;

cout<<endl;