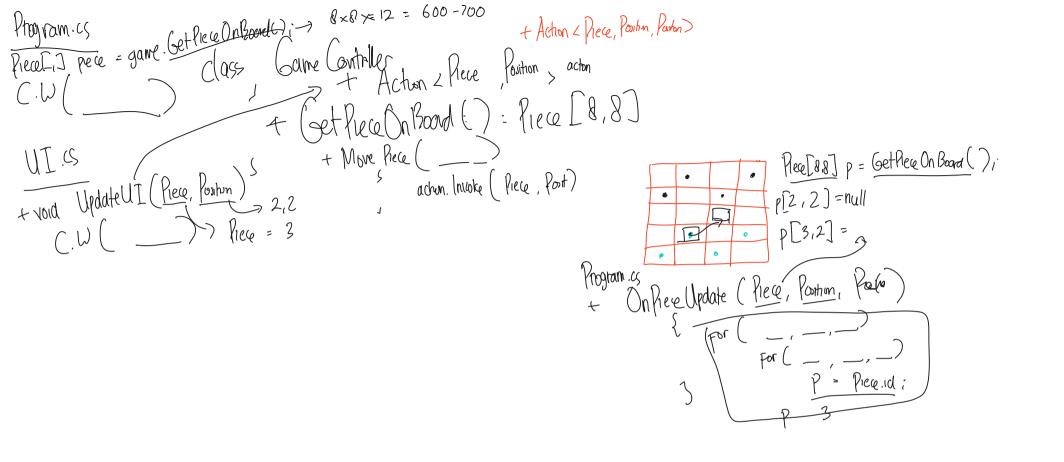
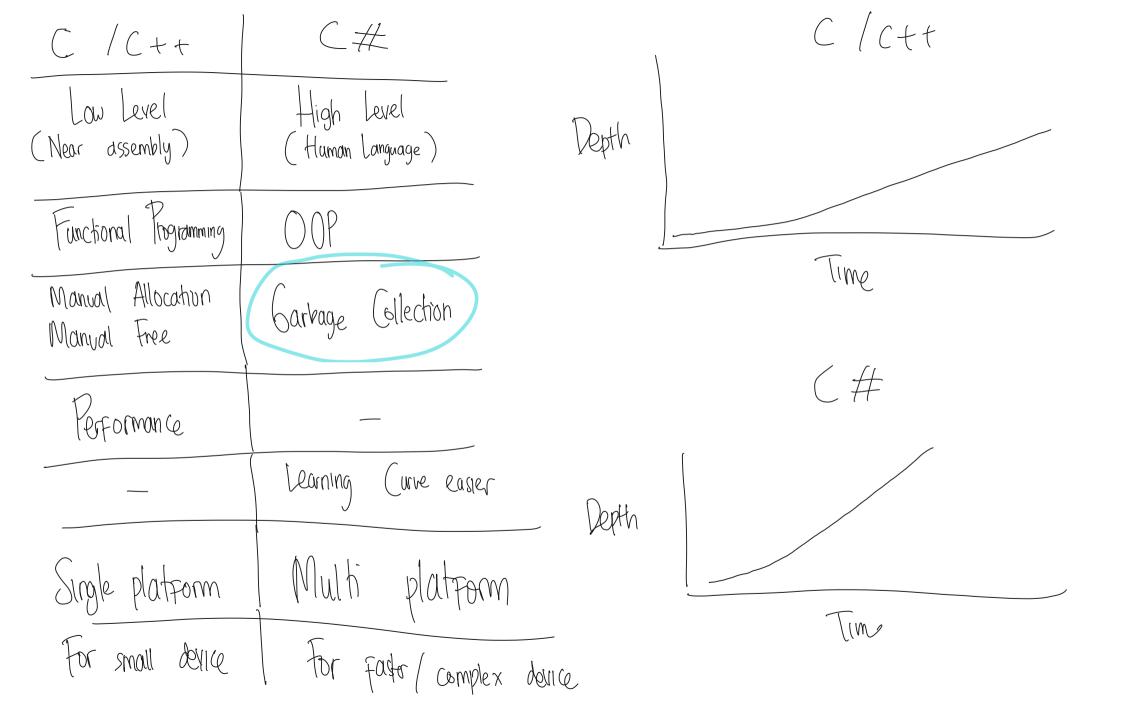


Realization

[Player

Player

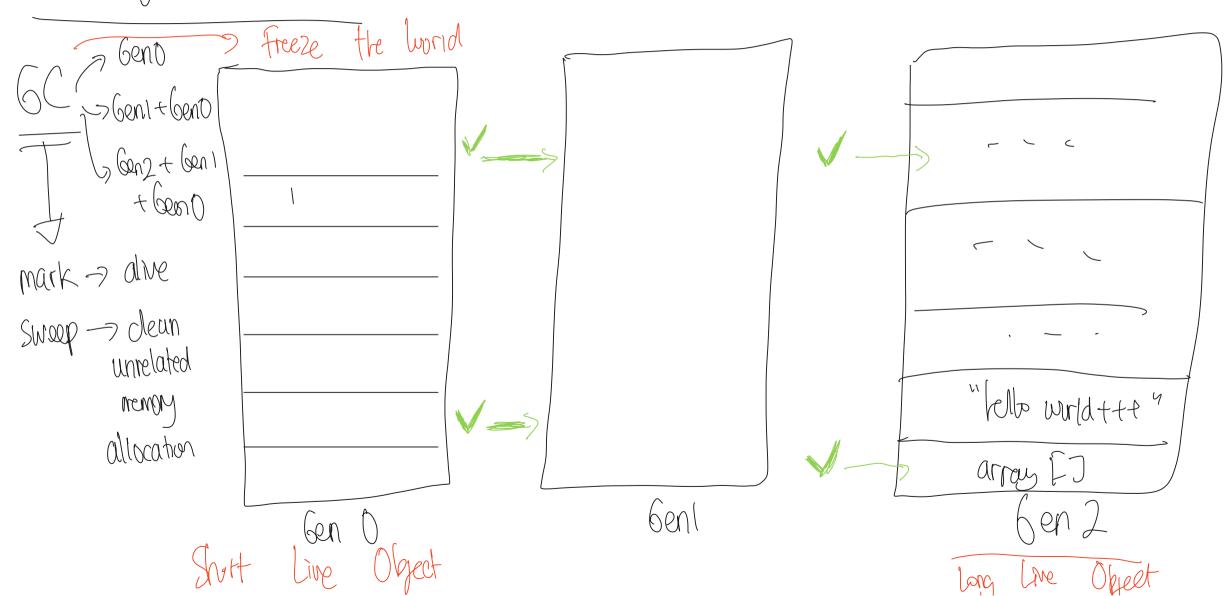




how much garbage Carbage Collection Factor remany full (near) time from last Collection ( allector arbage managed heap/managed resource = class String amer collection disb. fello una" Stack reap fello world 4 un managed leap (external) X (ple, api, http request , database, smtp) ollyn) managed reap Program Carry, class, string, ds)

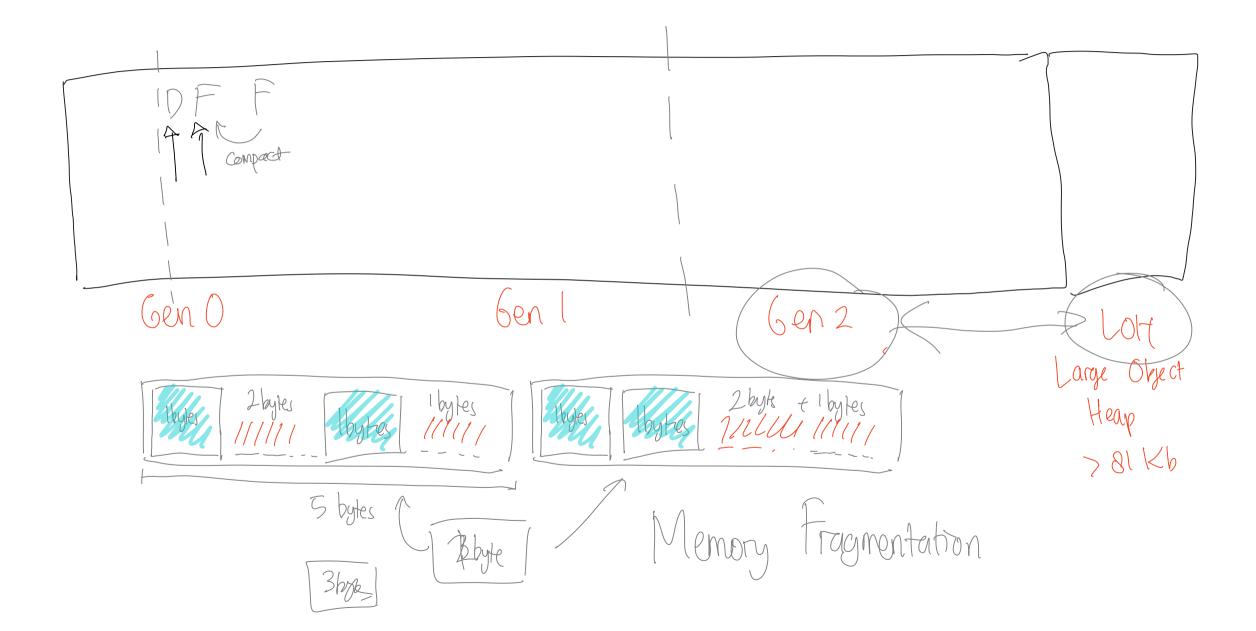
-> Managed leap 61+60 62+61+60 File 20mb mark = alive reap Unmaraged Clean ? ( Hease) sweep = RAM akhr and program nemay Using & file ple = rew ("fath"))} ear

Managed heap

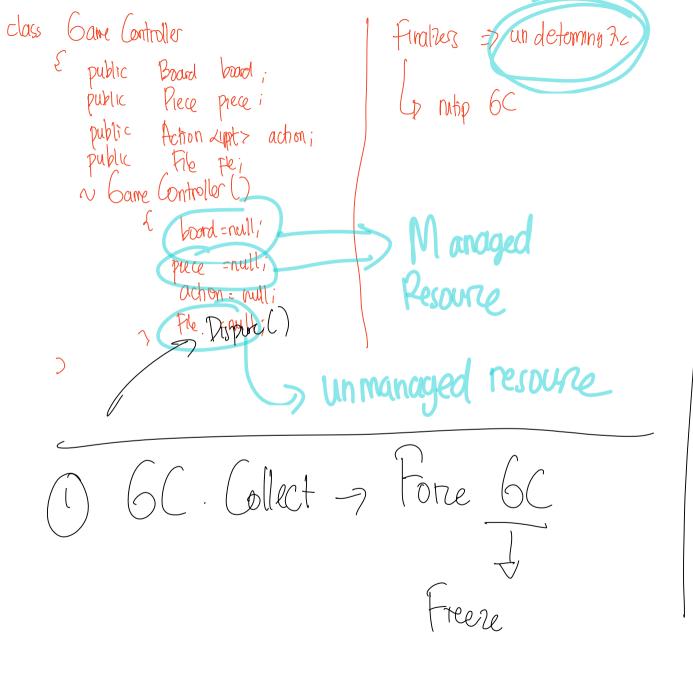


Memory cache RAM NVMe SSD

Corbage Collector > mark -> Instance alive > sweep -> dihapus object mati Compact > dicopy -> memory fragmentation Gen 1 Gen O (sep 2 Large Object Managed Heap > 81 Kb



~ Jestructor / Finalizer not have parameter not have access modifies (4) name of finalizer == class finalizers unreforenced object that have finalizes Object -> 9¢ mark -> Finalizers lut -> sweep



Slow performance Lp finalizers 167 In desteministic Mennory Consume unna Finalizes HVOID Hont have empty final nes turpose -> set null for object Finaliza lut contain unreprence Object Object = rull

The pile = new ("maintxt"); managed resource. File. Vnteline ( --.); ~ Callection ple Whelire ( .... ); Databak - class (represed type)

Internal resource Unmanaged resource DW 197 - Finalizes external if we are w underteminunc manual terroune

. Dispose external resource will be released	
I Disposeable - rond Dispose();	
Yold Main ()	
File File = now File ( " path. +xt");  File Lune ();	
Fle. Where C)  String result: Fle. Read Luncl.);	
trys Checker (rerult) >>>> Creephon	
Fire Unteline ()  File Dupote(); X > hdak bena	
(File-Duposel); X > hdak bena	
\(\sum_{\chi} = \chi_{\chi}\)	

The public file = new file ( path. +x+4),

File file = new file ( path. +x+4),

string result = file Read 1

Chol. 4610 - Checker ( regult) - > Creephon

```
class Car : IDisposable
   public Engine engine; — Managed Mount
   public File file; — 7 un mana ged resource
   private bool disposedValue: //status Dispose already called or not
   protected virtual void Dispose(bool disposing)
       if (!disposedValue) -> check . Dupox() already called or not
          if (disposing)
              engine = null;
               // TODO: dispose managed state (managed objects)
           file.Dispose();
           file = null;
             TODO: free unmanaged resources (unmanaged objects) and override finalizer
           // TODO: set large fields to null
           disposedValue = true;
   // /TODO: override finalizer only if 'Dispose(bool disposing)' has code to free unmanaged resources
   0 references
   ~Car()
       // Do not change this code. Put cleanup code in 'Dispose(bool disposing)' method
       Dispose(disposing: false);
   0 references
   public void Dispose()
       // Do not change this code. Put cleanup code in 'Dispose(bool disposing)' method
       Dispose(disposing: true);
       GC. SuppressFinalize(this); — Reach ate Finalizes
```

https://github.com/kinarajv/Day-16

Formulatrix Trainer