



Trabalho Final

Linguagem de Programação II e Estruturas de Dados II

Grupo:

- Deyvid William Silva de Medeiros
- Guilherme Euler Dantas Silva
- Nathã Vitor de Lima





Diagrama de Classes

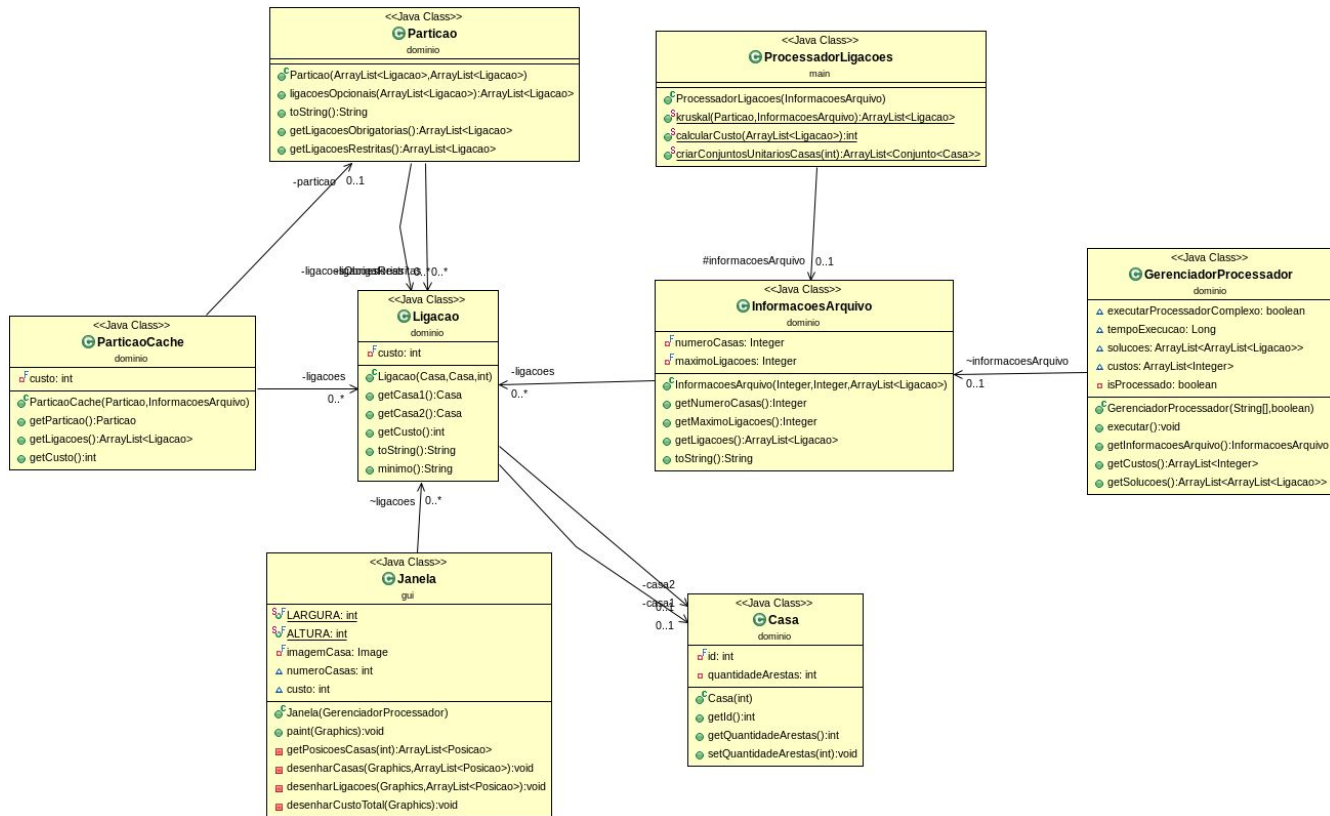




Diagrama de Classes

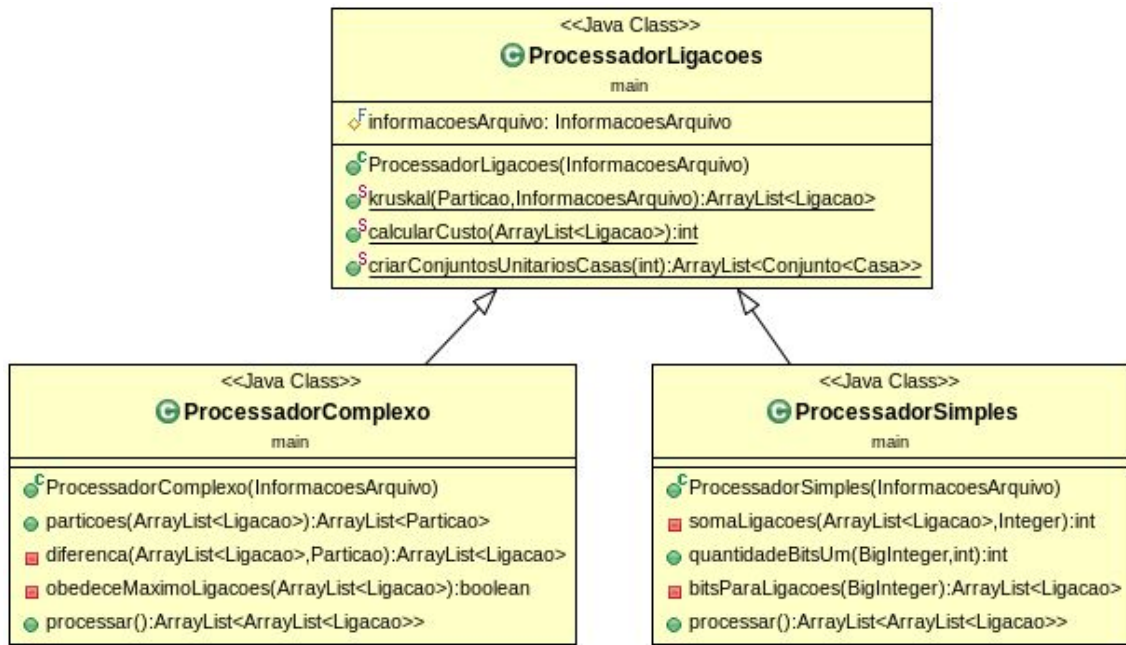
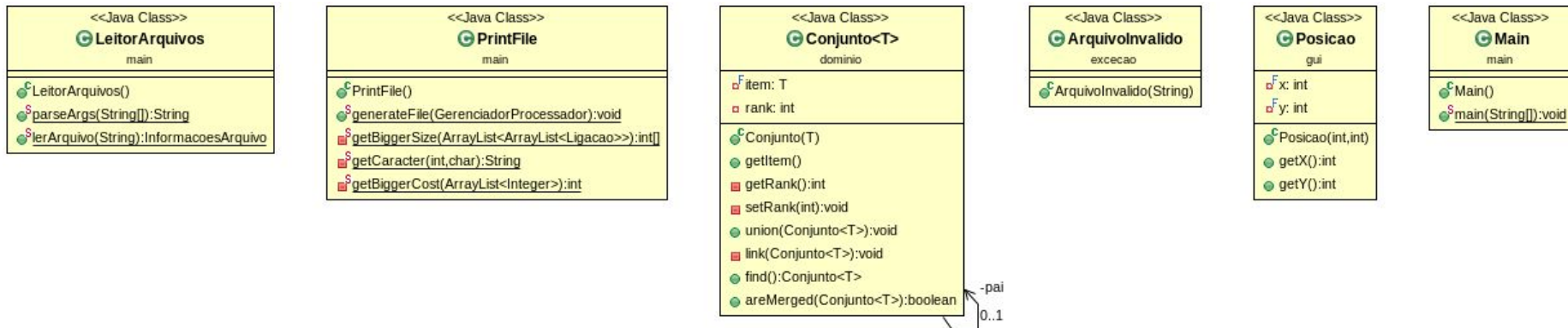




Diagrama de Classes





Etapa 1





Kruskal





```
algorithm Kruskal(G) is
  F :=  $\emptyset$ 
  for each v  $\in$  G.V do
    MAKE-SET(v)
  for each (u, v) in G.E ordered by weight(u, v), increasing do
    if FIND-SET(u)  $\neq$  FIND-SET(v) then
      F := F  $\cup$  {(u, v)}  $\cup$  {(v, u)}
      UNION(FIND-SET(u), FIND-SET(v))
  return F
```





K-best





List = $\{A\}$

Calculate_MST (A)

while MST $\neq \emptyset$ **do**

 Get partition $P_s \in$ List that contains the smallest spanning tree

 Write MST of P_s to Output_File

 Remove P_s from List

 Partition(P_s).

PROCEDURE PARTITION (P)

$P_1 = P_2 = P$;

for each edge i in P **do**

if i not included in P and not excluded from P **then**

 make i excluded from P_1 ;

 make i included in P_2 ;

 Calculate_MST (P_1);

if Connected (P_1) **then**

 add P_1 to List;

$P_1 = P_2$;





Etapa 2





Obrigado!

