

A decorative graphic consisting of a large, thin, gold-colored bracket on the right side and a thin, gold-colored circle on the left side, both partially overlapping a light green rectangular area.

Measurement Exercise

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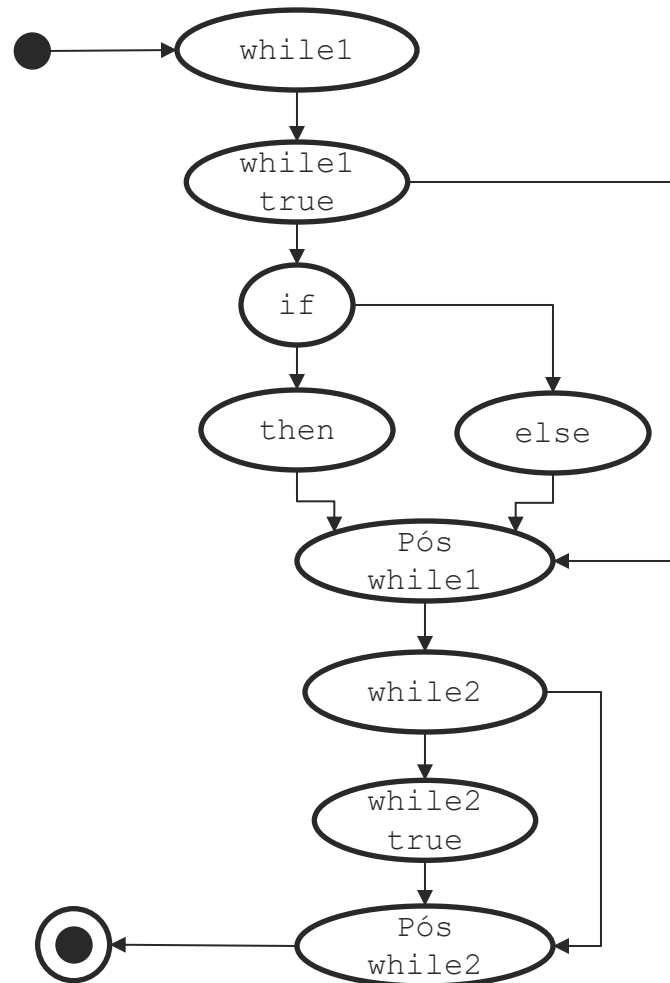
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[Q1: Cyclomatic Complexity]

- Complexidade Ciclomática: três respostas aceitas
 1. Opção 1: contar o número de estruturas de desvio no código
Resposta = **3** (2 while + 1 if)
 2. Opção 2: contar as regiões do grafo
Resposta = **4** (1 externo + 3 ciclos)
 3. Opção 3: contar todos os caminhos distintos possíveis no código
Resposta = **6**

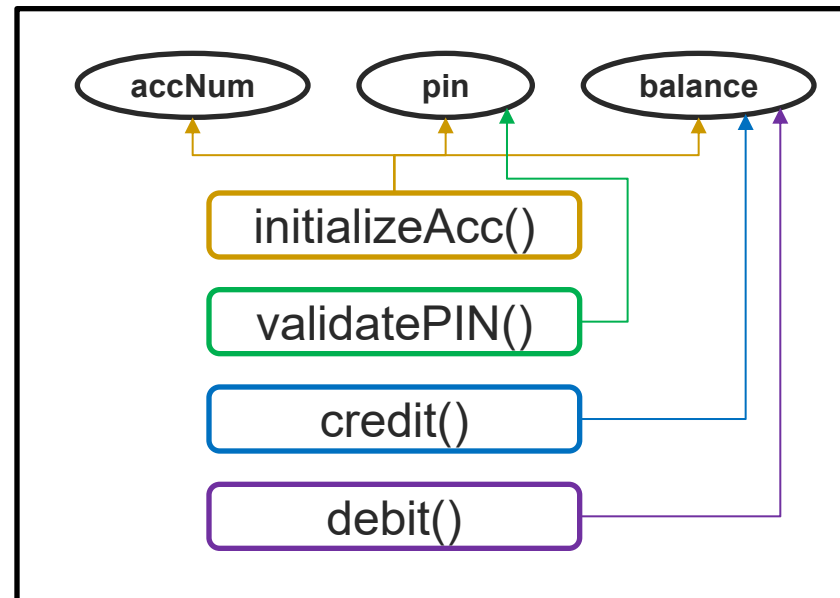
[Q1: Program Control Flow]



Q2: Lack of Cohesion

- Resposta: LCOM = 0 (2 - 4)

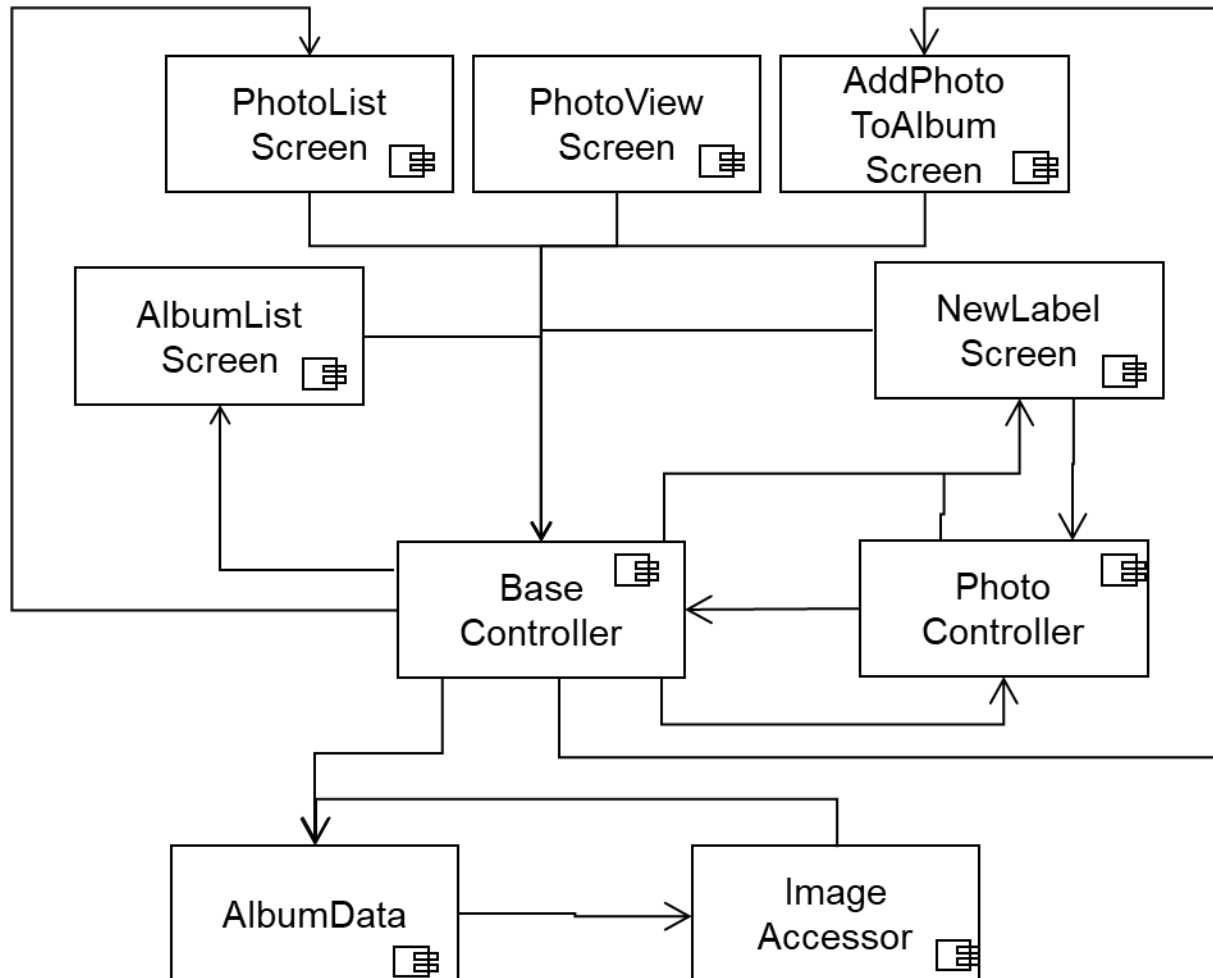
- 2 pares não tem atributo em comum
 - validatePIN-credit
 - validatePIN-debit
- Os outros 4 pares possuem pelo menos um atributo em comum



[Q3: DIT, CBO, and NOC]

- a) Depth of Inheritance Tree (DIT)
 - Transaction = 1, Deposit = 2
- b) Coupling between Object Classes (CBO)
 - BankDatabase = 2, Logger = 0
- c) Number of Children (NOC)
 - Transaction = 3, Withdrawal = 0

Q4: New Representation



[Q4: Fan-In and Fan-Out]

	Fan In	Fan Out
PhotoListScreen	1	1
PhotoViewScreen	0	1
AddPhotoToAlb.	1	1
AlbumListScreen	1	1
NewLabelScreen	2	2
BaseController	6	6
PhotoController	2	2
AlbumData	2	1
ImageAccessor	1	1