Problem 6: Amusement Park Ride eligibility

Start

ride
age
height

ride = dragon — yes → age ≥ 10
height ≤ 48
inches

No

No

ride = Sky — yes → height ≥ 54 inche

Sorry but this ride isn't for you.

No

Go on enjoy the ride.

No

Yes

Go on enjoy the ride.

1a

2a

1b

1a

ride = carousel

age ≥ 5

yes

yes

Go on, enjoy the ride.

No

Sorry, this ride is not for you.

There is no other ride except these.

Stop
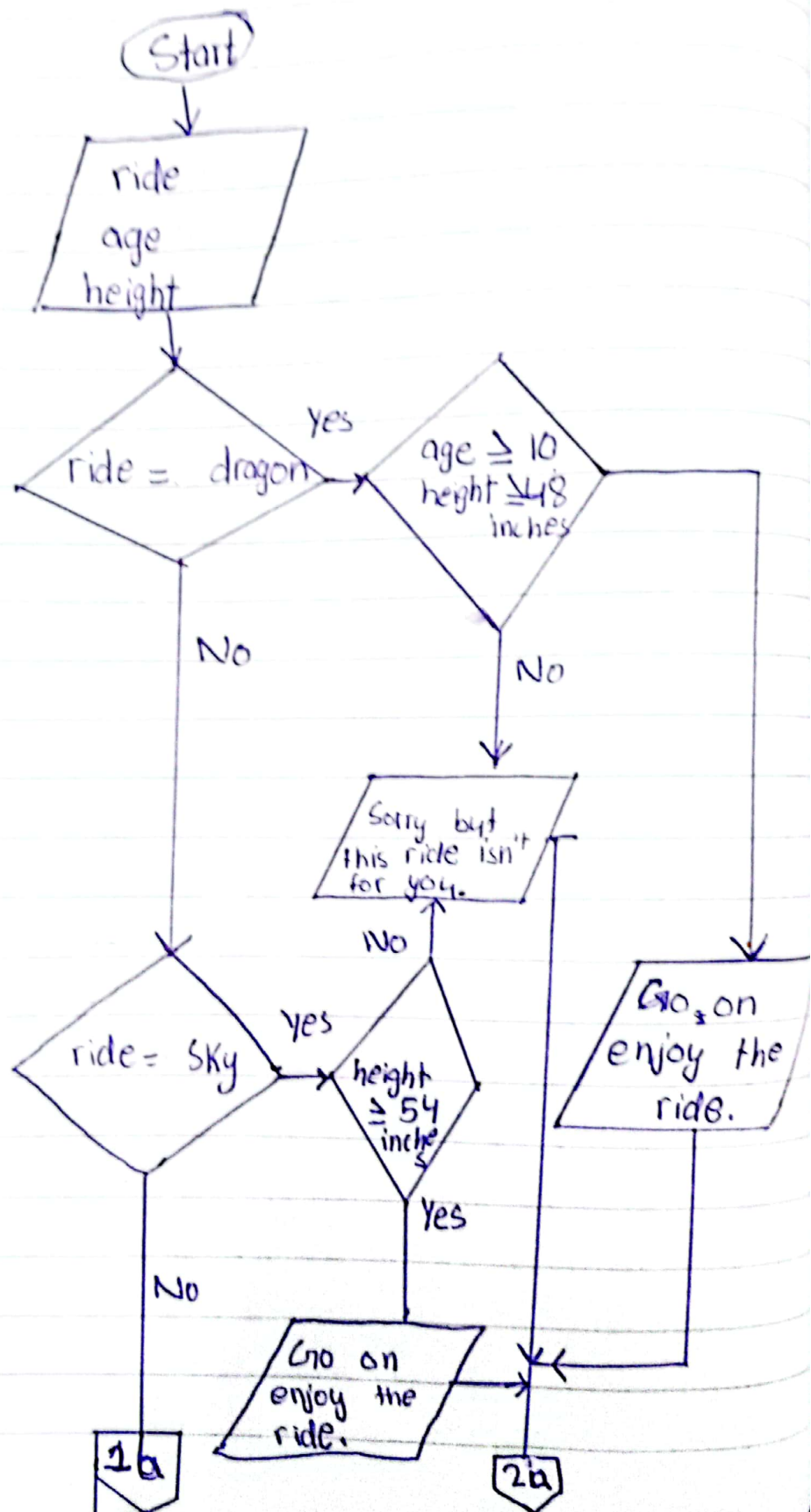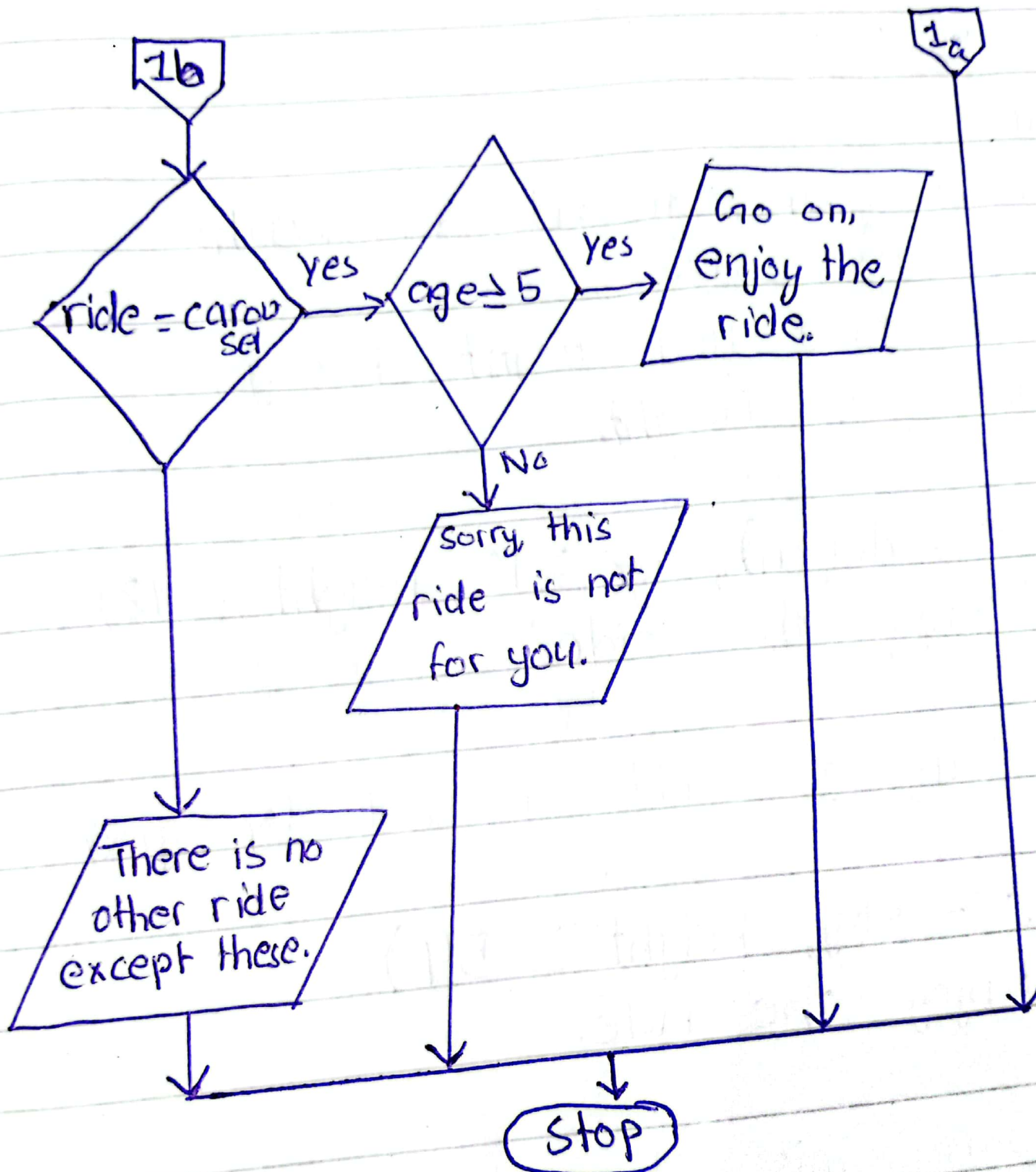
Pseudo code:

- Start.
- // Input your age, ride, and height
  → Enter your age.
  → Which ride you want to go.
  → Enter your height.

- if (ride = dragon, age ≥ 10, height ≥ 48)
  Print " Enjoy the ride."
  else
  Print " Sorry, this ride is not for you."

- if (ride = sky, height ≥ 54)
  Print " Enjoy the ride."
  else
  Print " Sorry, this ride is not for you."

- if (ride = carousel, age ≥ 5)
  Print " Enjoy the ride."
  else
  Print " sorry, this ride is not for you."

- End

IPO:

Input	Processing	Module Preference	Output
ride age height	•Enter ride	Read	Ride Eligibility
	•Enter age	Read	
	•Enter height	Read	
	•Match age and height with criteria of ride	Calc	
	•Display message	Print	
	• End.		