

Name: _____

Lab 6 Worksheet

Exercise 1

Identify the animation variables needed for this sketch.

what changes?	what kind of value?	what's the starting point?	how does the value change?

Identify the conditionals patterns for this sketch – fill in the table below. Treat the horizontal and vertical movement of the ellipse as separate decisions – use one column for each.

what happens differently, or only sometimes?		
what are the alternatives?		
how do we decide between them?		
on the spot or prior happenings?		

(continued on the next page)

Identify additional elements of the conditionals pattern – fill in the table below that corresponds to the applicable pattern for each decision. Only fill in one of the tables for each decision!

on-the-spot	is “do nothing” an option?		
	when does each alternative occur?		

prior happenings	what is the decision about?		
	how many alternatives are there?		
	is “do nothing” an option?		
	which alternative do we start with?		
	for each alternative, when do we change to that alternative?		

If you identified either decision as an instance of the prior happenings pattern, also fill in the following table.

prior happenings	what type will the state variable be?		
	identify the values you will use and their meanings		

Exercise 2

Identify the animation variables needed for this sketch.

what changes?	what kind of value?	what's the starting point?	how does the value change?

Start by considering only the ellipse changing directions when it reaches an edge – don't worry about the mouse clicks yet. Identify the conditionals patterns for this sketch – fill in the table below.

what happens differently, or only sometimes?	
what are the alternatives?	
how do we decide between them?	
on the spot or prior happenings?	

(continued on the next page)

Identify additional elements of the conditionals pattern – fill in the table below that corresponds to the applicable pattern for each decision. Only fill in one of the tables for each decision!

on-the-spot	is “do nothing” an option?	
	when does each alternative occur?	

prior happenings	what is the decision about?	
	how many alternatives are there?	
	is “do nothing” an option?	
	which alternative do we start with?	
	for each alternative, when do we change to that alternative?	

If you identified the decision as an instance of the prior happenings pattern, also fill in the following table.

prior happenings	what type will the state variable be?	
	identify the values you will use and their meanings	

Exercise 3

Identify the animation variables needed for this sketch.

what changes?	what kind of value?	what's the starting point?	how does the value change?

Identify the conditionals patterns for this sketch – fill in the table below. Hint: there are three separate decisions here.

what happens differently, or only sometimes?			
what are the alternatives?			
how do we decide between them?			
on the spot or prior happenings?			

(continued on the next page)

Identify additional elements of the conditionals pattern – fill in the table below that corresponds to the applicable pattern for each decision. Only fill in one of the tables for each decision!

on-the-spot	is “do nothing” an option?			
	when does each alternative occur?			

prior happenings	what is the decision about?			
	how many alternatives are there?			
	is “do nothing” an option?			
	which alternative do we start with?			
	for each alternative, when do we change to that alternative?			

If you identified any of the decisions as an instance of the prior happenings pattern, also fill in the following table.

prior happenings	what type will the state variable be?			
	identify the values you will use and their meanings			

Exercise 4

Identify the conditionals patterns for the decisions in this sketch – fill in the table below. Use one column for each decision and use the second table if you have more than three decisions.

Note: it is strongly recommended that you fill in these tables in conjunction with the table on the next page to ensure that you meet all of the requirements for this sketch.

what happens differently, or only sometimes?			
what are the alternatives?			
how do we decide between them?			
on the spot or prior happenings?			

what happens differently, or only sometimes?			
what are the alternatives?			
how do we decide between them?			
on the spot or prior happenings?			

(continued on the next page)

Fill in the table below with how you'll meet the requirements regarding conditionals for this exercise. Note that one decision can count towards multiple requirements e.g. the on-the-spot decision and the prior happenings pattern count as two of the three decisions needed – you don't need three more decisions on top of those two.

three decisions	
an on-the-spot decision	
prior happenings	
a decision with two alternatives ("do nothing" can count as one alternative)	
a decision with more than two alternatives ("do nothing" can count as one alternative)	
three different flavors	

(continued on the next page)

Identify additional elements of the conditionals pattern – fill in the table below that corresponds to the applicable pattern for each decision. Only fill in one of the tables for each decision!

on-the-spot	is “do nothing” an option?			
	when does each alternative occur?			

prior happenings	what is the decision about?			
	how many alternatives are there?			
	is “do nothing” an option?			
	which alternative do we start with?			
	for each alternative, when do we change to that alternative?			

If you identified any of the decisions as an instance of the prior happenings pattern, also fill in the following table.

prior happenings	what type will the state variable be?			
	identify the values you will use and their meanings			

Identify additional elements of the conditionals pattern – fill in the table below that corresponds to the applicable pattern for each decision. Only fill in one of the tables for each decision!

on-the-spot	is “do nothing” an option?			
	when does each alternative occur?			

prior happenings	what is the decision about?			
	how many alternatives are there?			
	is “do nothing” an option?			
	which alternative do we start with?			
	for each alternative, when do we change to that alternative?			

If you identified any of the decisions as an instance of the prior happenings pattern, also fill in the following table.

prior happenings	what type will the state variable be?	
	identify the values you will use and their meanings	