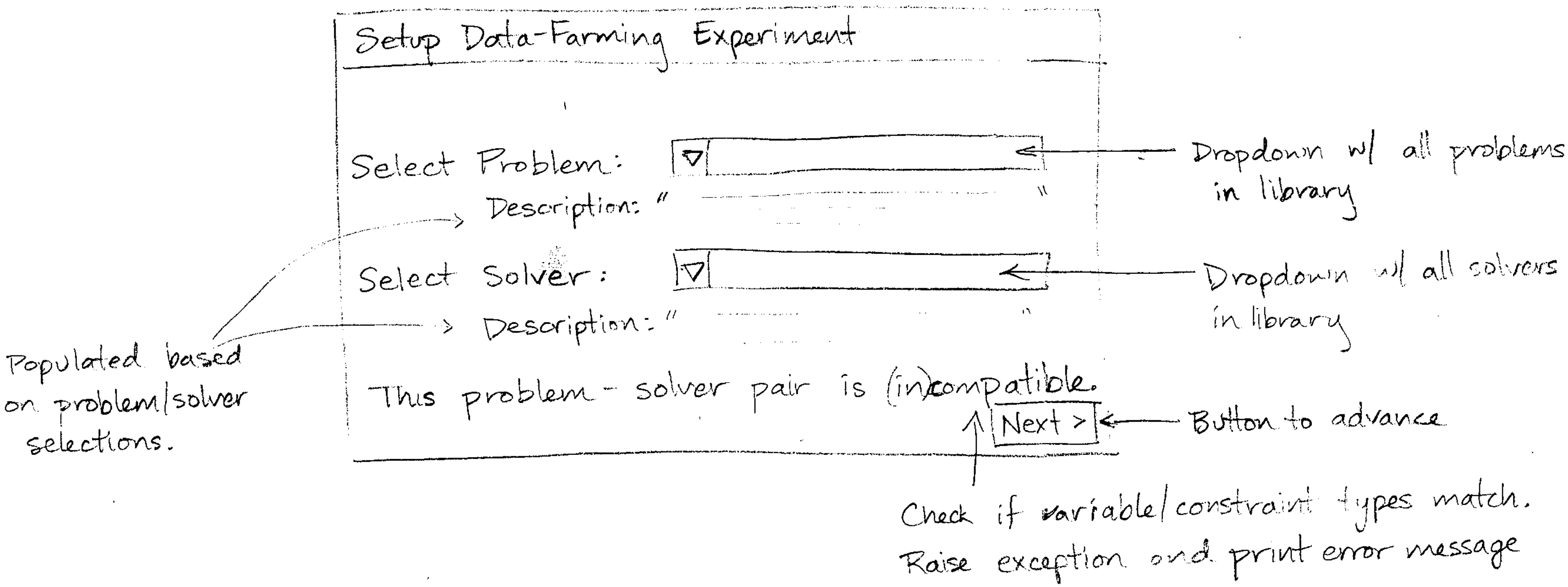
SimOpt Data-Farming GUI



This problem-solver pair is (in)compatible.

Dropdown w/ all problems in library

Dropdown w/ all solvers in library

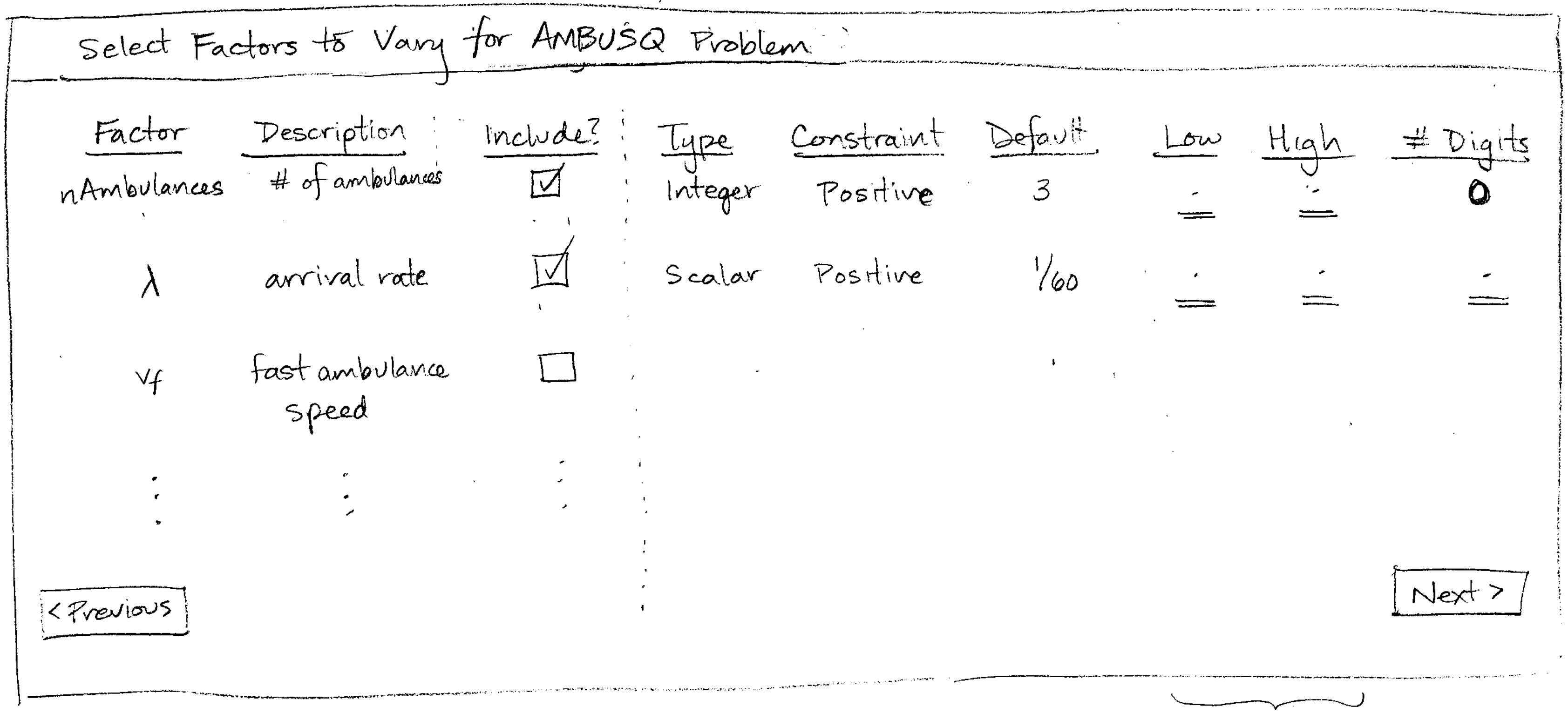
Populated based on problem/solver selections.

Button to advance

Check if variable/constraint types match. Raise exception and print error message

Maybe values in a row only appear if Include? box is checked.

Populated based on problem selection



Select Factors to Vary for AMBUSQ Problem

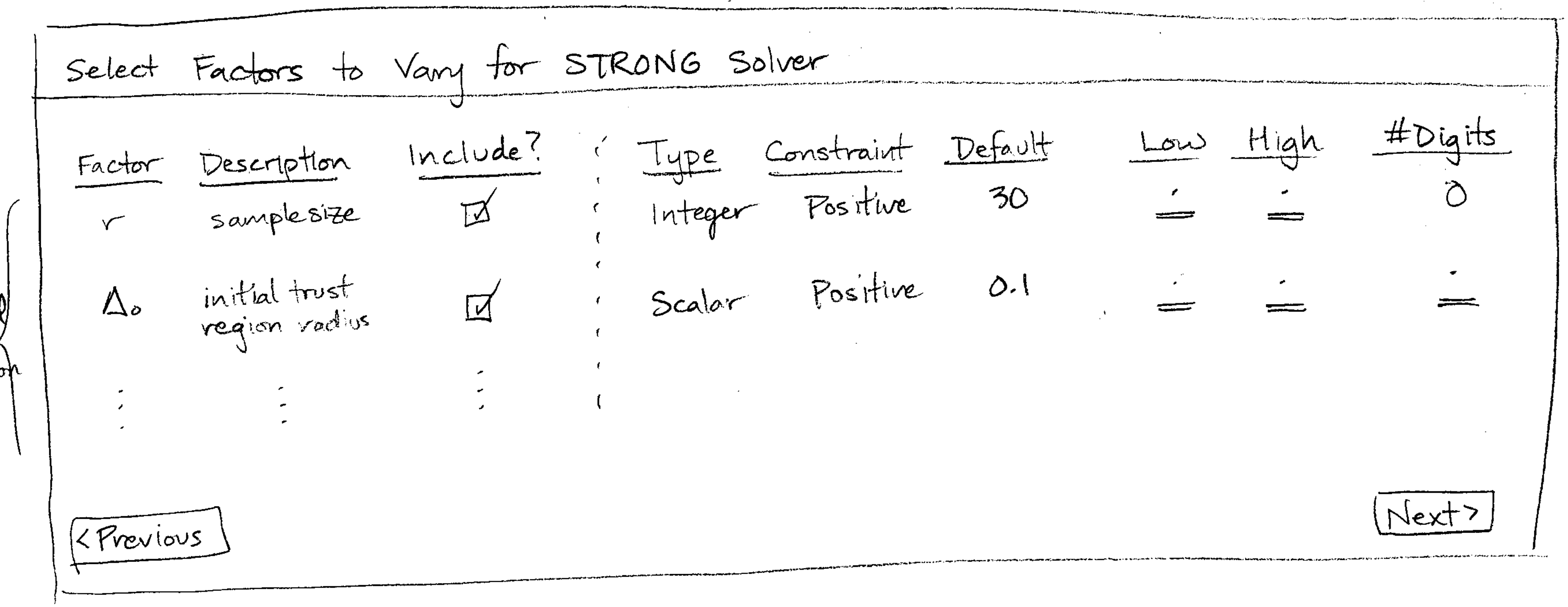
Factor	Description	Include?	Type	Constraint	Default	Low	High	# Digits
nAmbulances	# of ambulances	☑	Integer	Positive	3	≐	≐	0
λ	arrival rate	☑	Scalar	Positive	$1/60$	≐	≐	≐
V_f	fast ambulance speed	□						
⋮	⋮	⋮						

≐ denotes user inputs.

* Are negative integers allowed for # Digits?
  -1 means factor must be set to multiple of 10.

* How will Ruby code handle a degenerate factor?
  E.g., fixing nAmbulances to a non-default value 4.

For categorical factors (e.g. service discipline), Low/High are replaced by a checklist enumerating the possible values. ☑ FIFO ☑ LIFO



Select Factors to Vary for STRONG Solver

Factor	Description	Include?	Type	Constraint	Default	Low	High	#Digits
r	sample size	☑	Integer	Positive	30			0
Δ_0	initial trust region radius	☑	Scalar	Positive	0.1			
⋮	⋮	⋮						

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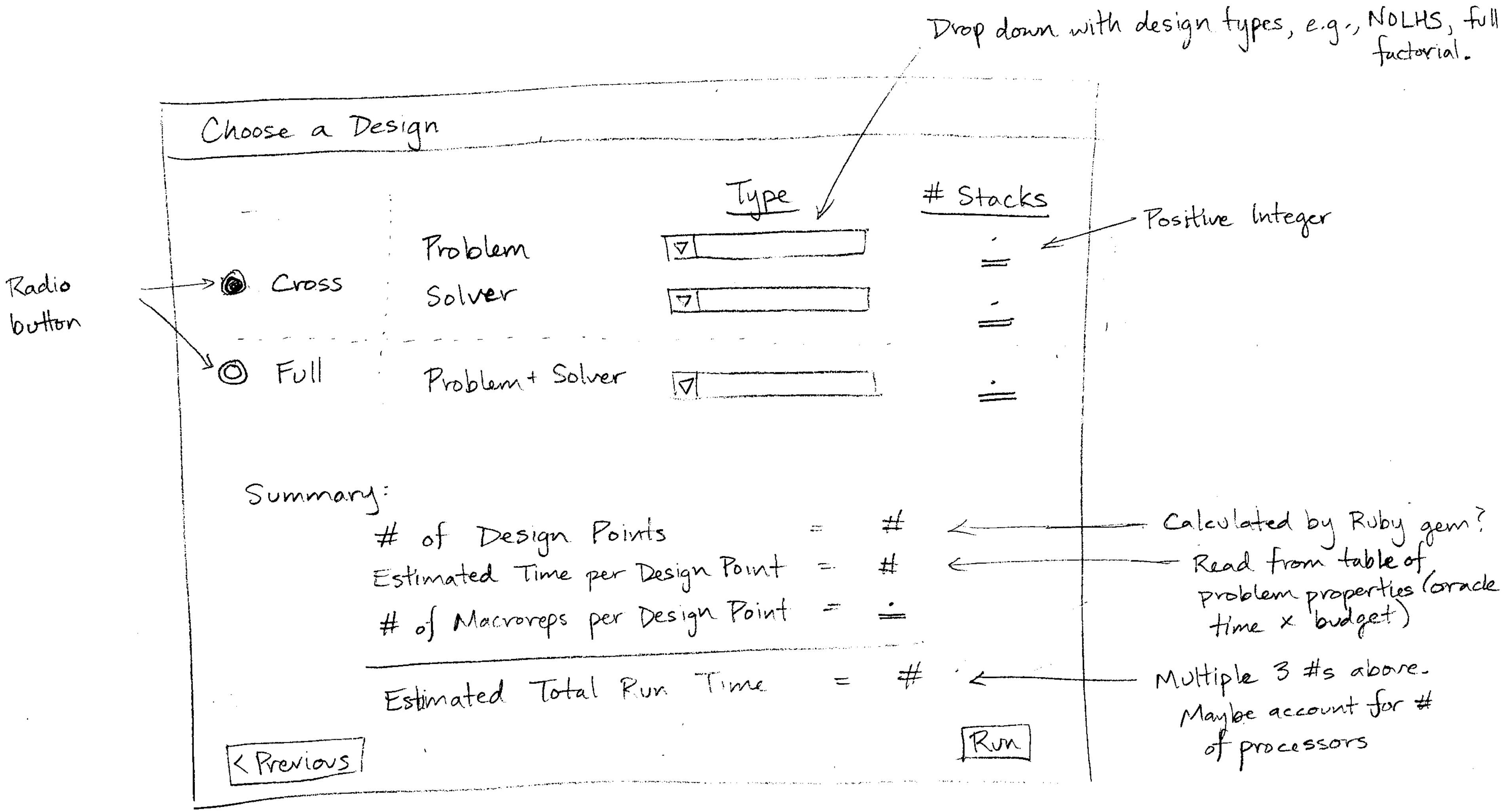
Populated based on solver selection



Drop down with design types, e.g., NOLHS, full factorial.

Radio button

Positive Integer

Choose a Design

		Type	# Stacks
● Cross	Problem	▽	___
	Solver	▽	___
○ Full	Problem + Solver	▽	___

Summary:

# of Design Points = # ← Calculated by Ruby gem?

Estimated Time per Design Point = # ← Read from table of problem properties (oracle time × budget)

# of Macroreps per Design Point = ___

Estimated Total Run Time = # ← Multiple 3 #s above. Maybe account for # of processors

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Run

Run button executes the following:

writes 3-column text files w/ factor specs for problem + solver

1. writes 3-column text files w/ factor specs for problem + solver
① writes 3-column text files w/ factor specs for problem + solver