Quiz on Section 3 Results for SevdanurGenc

! Correct answers are hidden.

Score for this attempt: 11.33 out of 12

Submitted Jun 22 at 10:38pm This attempt took 13 minutes.

Question 1	1 / 1 pts
How do you create a simulated annealing sampler in D-Wave assur have the following statement? from neal import SimulatedAnnealingSampler	ming we
sampler = Simulated	
sampler = SimulatedAnnealler	
sampler = SimulatedAnnealingSampler	
sampler = SimulatedAnnealingSampler()	

Question 2	1 / 1 pts
Which one is not a valid parameter for the sample function?	
onumber of reads	
binary quadratic model	
beta schedule	
ising model	

Question 3	1 / 1 pts
Suppose we created a simulated annealing sampler named sampler. using which function can you sample directly from an Ising model with creating a bqm?	-
Sample	
sample_ising	
ising_sample	
ising_sampler	

Question 4	1 / 1 pts
Suppose that we have a binary quadratic model named bqm.	
Which function do you use to add a quadratic objective function?	
bqm.add_quadratic_objective	
o bqm.add_objective	
O bqm.add	

Partial

Question 5

0.33 / 1 pts

```
p = []
    for t in range(N):
        for i in range(N):
        if sample[f"x_{i}_{t}"] == 1:
            p.append(i)
```

Given that $x_i_t=1$ if node i is visited at time t and 0 otherwise and a sample obtained as a result of solving a TSP instance with N cities using simulated annealing, suppose we execute the above piece of code. Which one of the following(s) is(are) true about p?

- ✓ If the sample is feasible, p contains the list of visited cities.
- p may contain less than N integers
- p may contain more than N integers
- p is always a permutation of integers between 0,..N-1

Question 6

Given that x_i_c=1 if node i is colored with color c and 0 otherwise and a sample obtained as a result of solving a graph coloring instance with N nodes using simulated annealing, suppose we execute the above piece of code. Which one of the following(s) is(are) true about coloring?

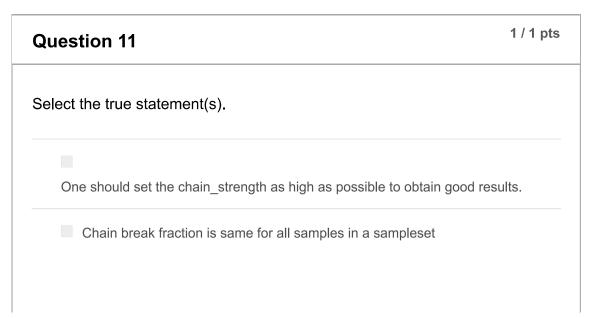
/	coloring is a dictionary with keys as nodes and values as colors
	All colors appear exactly ones as the values of the coloring
	coloring can have more than N keys
~	coloring can have less than N keys

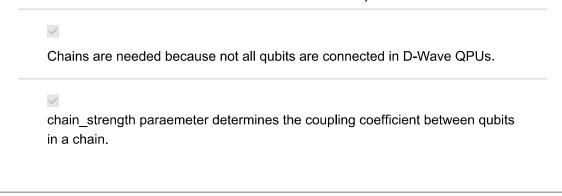
Suppose that we have a binary quadratic model named bqm. Which function do you use to add a linear inequality constraint? bqm.add_linear_inequality_constraint bqm.add_linear_inequality bqm.add_linear_inequality bqm.add_inequality_constraint

Question 8	1 / 1 pts
Adiabatic quantum computing is universal, i.e. you can simulate gate b quantum computers using adiabatic quantum computing.	
True	
O False	

Question 9	1 / 1 pts
In D-Wave, interactions of the form $J_{ijk}s_is_js_k$ can be implemented.	Ş
O True	
False	

How do you create a sampler to sample from D-Wave QPU with built-in minor embedding? sampler = EmbeddingComposite(DWaveSampler()) sampler = MinorEmbedding(DWaveSampler()) sampler = MinorEmbedding() sampler = EmbeddingComposite()





Question 12	1 / 1 pts
How do you create a sampler to sample from D-Wave default QPU?	
sampler = DWaveSampler("default"))	
o sampler = DWave()	
sampler = DWaveQPU()	
sampler = DWaveSampler()	

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