

# Quiz 12: Workflow and Petri Nets

**Due** Dec 5, 2016 at 11:59pm

**Points** 100

**Questions** 5

**Available** Nov 29, 2016 at 8am - Dec 5, 2016 at 11:59pm 7 days

**Time Limit** 60 Minutes

This quiz was locked Dec 5, 2016 at 11:59pm.

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	51 minutes	58.33 out of 100

Score for this quiz: **58.33** out of 100

Submitted Dec 5, 2016 at 11:54pm

This attempt took 51 minutes.

### Question 1

20 / 20 pts

What are the four kinds of tasks in workflow nets?

1. Automatic

2. User

3. External

4. Time

**Answer 1:**

automatic

**Answer 2:**

user

**Answer 3:**

external

**Answer 4:**

time

Correct!

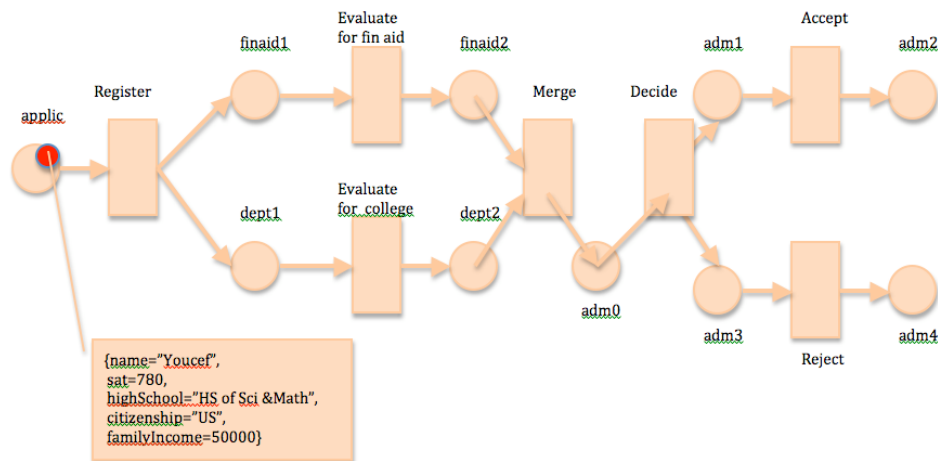
Correct!

Correct!

Correct!

## Question 2

13.33 / 20 pts



The picture above describes a workflow for accepting or rejecting undergraduate student applications. Applications may be received via Web submissions or in the mail. An application is evaluated in parallel by the department for the major to which the student is applying, and by the Financial Aid office. The evaluation criteria are a combination of qualitative and quantitative criteria. The final decision is made by the Admissions Office, taking comments by these departments into consideration. The result of evaluation is made available electronically over the Web. Match up each action (transition) with the kind of trigger that that action requires.

Correct!

**Register**

External ▼

Correct!

**Evaluate for fin aid**

User ▼

Correct!

**Evaluate for college**

User ▼

Correct!

**Decide**

User ▼

You Answered

**Accept**

External ▼

Correct Answer

Automatic

You Answered

**Reject**

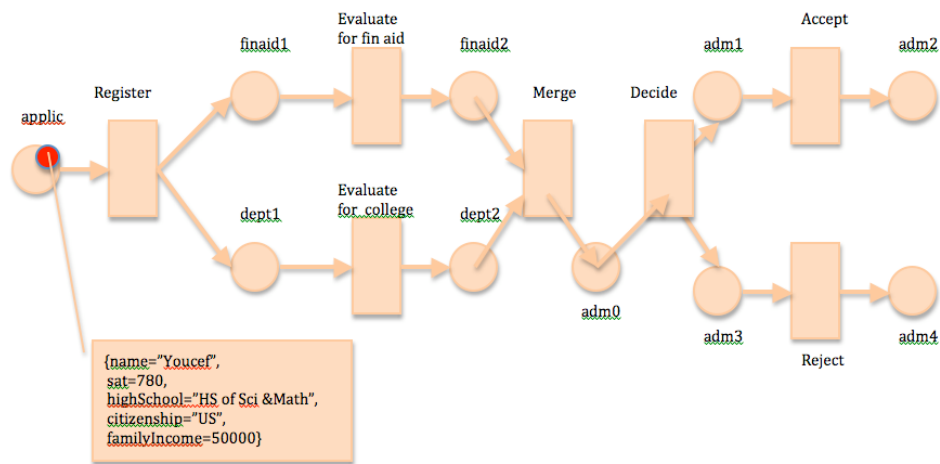
External ▼

Correct Answer

Automatic

### Question 3

0 / 20 pts



In terms of workflow nets, what type of transition node are each of the following tasks in the workflow diagram above?

1. Register

Initial

2. Merge

Reachable

3. Decide

Reachable

Answer 1:

Initial

You Answered

Correct Answer

AND-split

**Answer 2:**

You Answered

Reachable

Correct Answer

AND-join

**Answer 3:**

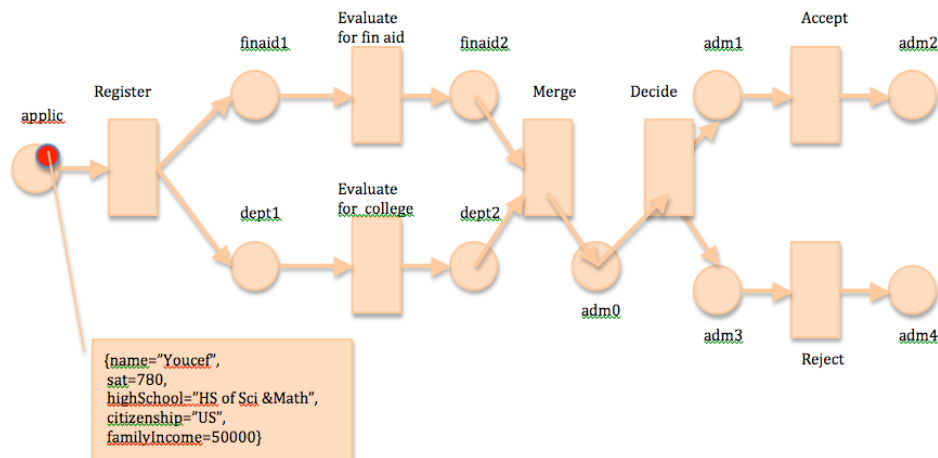
You Answered

Reachable

Explicit OR-split

**Question 4**

20 / 20 pts



What is the type of tokens in the applic place?

Your Answer:

types of token:

color name = string;

color SAT = number;

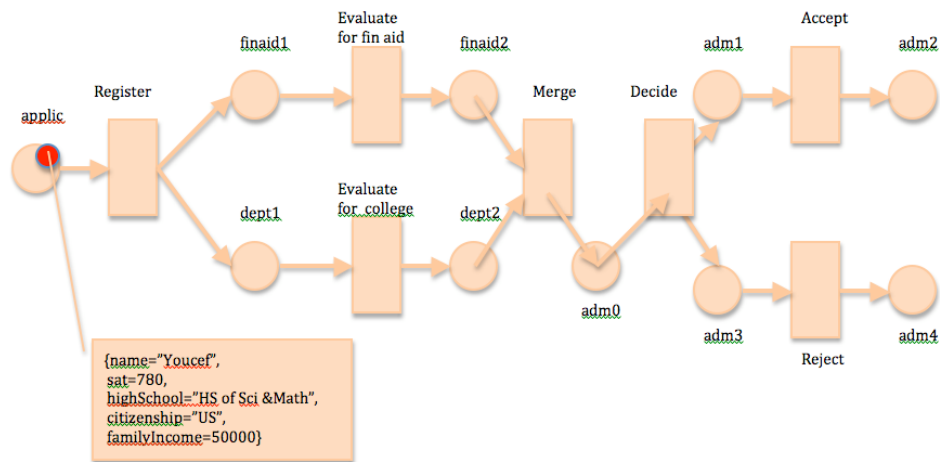
color highSchool = string;

color citizenship = string;

color familyIncome = number;

**Question 5**

5 / 20 pts



Assume that financial aid decisions are based on family income and citizenship, while academic decisions are based on SAT scores and what high school the applicant is graduating from. For privacy reasons, information should only be provided to those that need the information to make a decision. Give the types of the tokens in the finaid1 and dept1 places.

Your Answer:

finaid1

{name="Youcef",  
familyIncome=50000,  
citizenship="US"}

dept1

{name="Youcef",  
sat=780,  
highSchool="HS of Sci & Math"}

finaid1: {name : string, citizenship : string, familyIncome : integer} places1: {name : string, sat : integer, highSchool : string}