## Class Specifications

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**Class Name:**

Registration

**Documentation:**

**Definition:**

* The process of obtaining athletes who have successfully completed all qualification rounds prior to the Winter Olympics.
* Places athletes into their respective team.
* Places athletes into a specified event.

**Constraints:**

* Sets a maximum limit of athletes per event.
* Set a maximum limit on number of teams in the Winter Olympics.

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**Class Name:**

Team

**Documentation:**

**Definition:**

Represents each country in the Winter Olympics.

**Constraints:**

* There is to be only one team per country.

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**Class Name:**

Athlete

**Documentation:**

**Definition:**

An individual who is a part of a team in the Winter Olympics.

**Constraints:**

Can only be registered if maximum allotted space on their respective team has not been reached. This also includes the gender portion.

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**Class Name:**

Scoring

**Documentation:**

**Definition:**

The act of taking the judge's scores that are given to the athlete or pair of athletes at their respective event.

**Constraints:**

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**Subclass Name:**

Database

**Documentation:**

**Definition:**

* Collection of all information for all events in the winter Olympics.
* Collection of all registrants’ information.

**Constraints:**

Must contain information apropos to the event and registrants at hand.

**Class Name:**

Singles Skating

**Documentation:**

**Definition:**

* Form of figure skating where athletes participate individually.
* Utilizes the long program scenario where each athlete is free to do their own unique performance complete with technical tricks.

**Constraints:**

* Each athlete performs solo on the rink at a given time.
* Total duration of performance is 4 minutes and 30 seconds.

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**Class Name:**

Pair Skating

**Documentation:**

**Definition:**

* Form of figure skating where athletes participate in pairs.
* Utilizes the long program scenario where each pair is free to do their own unique performance complete with technical tricks.

**Constraints:**

* The pairs are male/female.
* Each pair performs solo on the rink at a given time.
* Total duration of performance is 4 minutes and 30 seconds.

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**Class Name:**

Ice Dance

**Documentation:**

**Definition:**

* Form of figure skating where athletes participate in pairs.
* Both members of the pair skate in tandem with the omission of technical tricks.

**Constraints:**

* The pairs are male/female.
* Each pair performs solo on the rink at a given time.
* Total duration of performance is 4 minutes and 30 seconds.

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**Class Name:**

SS500m

**Documentation:**

**Definition:**

* Speed Skating 500m has athletes race around a 400m track 1.25 times.
* The athlete that crosses the finish line first has the lowest time.

**Constraints:**

A maximum of four athletes compete at a given time.

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**Class Name:**

SS1000m

**Documentation:**

**Definition:**

* Speed Skating 1000m has athletes race around a 400m track 2.5 times.
* The athlete that crosses the finish line first has the lowest time.

**Constraints:**

A maximum of four athletes compete at a given time.

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**Class Name:**

SS1500m

**Documentation:**

**Definition:**

* Speed Skating 1500m has athletes race around a 400m track 3.75 times.
* The athlete that crosses the finish line first has the lowest time.

**Constraints:**

A maximum of four athletes compete at a given time.