SAT Criterion 1: Abstraction and Modelling – Ed Hirst

* 1. **The Algorithmic Problem:**

The algorithmic problem is getting the most amount of points in the time allowed

* 1. **Salient Features of the Problem:**
  2. **ADT specifications:**

**1.3.1 Suitable ADTs:**

**1.3.2 How features map to the data model**

**1.3.3 Signatures**

event register ADT signature

| float array size 2 🡨 start coordinates

| float array size 2 🡨 end coordinates

| linked list 🡨 teams

| array<linkedList<teams> > size 6 🡨 brackets

| dictionary <goals, pair <team and time> >

team ADT signature

| int 🡨 team member count

| linkedList<pairs<strings, age> > 🡨 team member names and ages

| time 🡨 time of arrival

| time 🡨 finishing

| armband register (linkedList of pairs <goal, time visited>)

goal ADT signature

| float 🡨 x coordinate

| float 🡨 y coordinate

| int 🡨 point reward

* Need to make map ADT and stuff

**Context:**

1: Self-made Rogaine Challenge

2: Best Routes

7: ADT Component Documentation