OkCupid Matching Challenge

OkCupid is an online dating site has an interesting matching algorithm. You're going to implement it. See the enclosed PDF for OkCupid's description of their algorithm.

Write a program in the language of your choice that reads a set of user profiles from stdin (represented in JSON; see included example input file) and writes the top 10 matches for each user profile to stdout (also in JSON, see below), sorted in rank order.

You have 120 minutes to provide your solution (from the time we email you). Email me your program and your output from the provided input.

Important

- The guts of the algorithm is more important to me than the JSON processing (it's not a JSON processing quiz). Consider that when prioritizing if you're short on time or unfamiliar with JSON processing libraries in your language of choice.
- Your primary goal is to produce a quality implementation of the algorithm. Code should be self-documenting and easy to read.
- Being time and space efficient is not as important as clear, understandable code here.
 But think about how space/time inefficient your simple solution is. Think about the data structures and operations you're using.
- There are several optimization opportunities in the implementation. Implement the
 optimizations if you have time. If you don't have time, feel free to follow-up with an
 optimized version or some notes on how you might make the implementation more time
 or space efficient.

Input Format

- The 'importance' field is in the range [0,4] and is the index into an array that defines the weights as described in the OkCupid doc, e.g.: private static final int[] IMPORTANCE_POINTS = new int[]{0, 1, 10, 50, 250};
- Answers are always in the range [0,3]
- The size of the acceptable answer set is between 1 and 3. 0 and 4 are nonsensical.

Output Format