1. You have some data about a set of students and need to summarize them using measures of central tendency.

<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
<th>Nationality</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amy</td>
<td>18</td>
<td>English</td>
<td>99</td>
</tr>
<tr>
<td>Ted</td>
<td>19</td>
<td>American</td>
<td>88</td>
</tr>
<tr>
<td>Fred</td>
<td>23</td>
<td>English</td>
<td>77</td>
</tr>
<tr>
<td>Balazs</td>
<td>20</td>
<td>Hungarian</td>
<td>100</td>
</tr>
<tr>
<td>Olga</td>
<td>19</td>
<td>Russian</td>
<td>92</td>
</tr>
<tr>
<td>Sein</td>
<td>20</td>
<td>Irish</td>
<td>95</td>
</tr>
<tr>
<td>Fionula</td>
<td>21</td>
<td>English</td>
<td>98</td>
</tr>
<tr>
<td>Francois</td>
<td>27</td>
<td>French</td>
<td>56</td>
</tr>
<tr>
<td>Vladimir</td>
<td>29</td>
<td>Russian</td>
<td>63</td>
</tr>
<tr>
<td>Jiang</td>
<td>24</td>
<td>Chinese</td>
<td>58</td>
</tr>
<tr>
<td>Arthur</td>
<td>23</td>
<td>English</td>
<td>60</td>
</tr>
<tr>
<td>Thomas</td>
<td>20</td>
<td>English</td>
<td>93</td>
</tr>
<tr>
<td>Jane</td>
<td>19</td>
<td>American</td>
<td>59</td>
</tr>
<tr>
<td>Brad</td>
<td>22</td>
<td>English</td>
<td>89</td>
</tr>
<tr>
<td>Han</td>
<td>31</td>
<td>Chinese</td>
<td>97</td>
</tr>
</tbody>
</table>

Compute measures of central tendency for the age, nationality, and points variables, excluding those measures that are inappropriate for a given variable, although you must explain why it is inappropriate for a variable.

You must use R to compute these and you must show the code. There is no need to discuss your answers, just copy the R output that includes the answer. You can get this data into R using the `data.frame()` command. Try `?data.frame`.

2. In R, plot a density estimate of the Points variable from (1) above, and given this result, briefly discuss the suitability of using a median to summarize the central tendency of the Points variable. Note: Show the command you used and also paste the plot into your answer.

3. Load in the Benoit and Marsh (2008) dail2002.Rdata dataset we have been using. Use R to create a table showing median votes1st for each party. Hint: this can be done in a single command: try `?tapply`