```
 1 /usr/local/bin/python3.9 /Applications/PyCharm.app/
   Contents/plugins/python-ce/helpers/pydev/pydevd.py
    --multiproc --qt-support=auto --client 127.0.0.1
    --port 63659 --file /Users/jadenkim/Desktop/
   Mcmaster/2022/Winter/OOP/Assignment/2/part2.py
 2 Connected to pydev debugger (build 212.5080.64)
 3 Enter your distance 5-10: Enter initial velocity 1
    - 10: Enter travel time less than 10:
 4 ================================================
   ================================================
 5 Distance     Displacement        Acceleration
                Description
 6 5.0 m        -600.0 m        -50.0 m/s^2
   Object A will not hit object B
 7 5.0 m        -597.5 m        -49.8 m/s^2
   Object A will not hit object B
 8 5.0 m        -595.0 m        -49.6 m/s^2
   Object A will not hit object B
 9 5.0 m        -592.5 m        -49.4 m/s^2
   Object A will not hit object B
10 5.0 m        -590.0 m        -49.2 m/s^2
   Object A will not hit object B
11 5.0 m        -587.5 m        -49.0 m/s^2
   Object A will not hit object B
12 5.0 m        -585.0 m        -48.8 m/s^2
   Object A will not hit object B
13 5.0 m        -582.5 m        -48.6 m/s^2
   Object A will not hit object B
14 5.0 m        -580.0 m        -48.4 m/s^2
   Object A will not hit object B
15 5.0 m        -577.5 m        -48.2 m/s^2
   Object A will not hit object B
16 5.0 m        -575.0 m        -48.0 m/s^2
   Object A will not hit object B
17 5.0 m        -572.5 m        -47.8 m/s^2
   Object A will not hit object B
18 5.0 m        -570.0 m        -47.6 m/s^2
   Object A will not hit object B
19 5.0 m        -567.5 m        -47.4 m/s^2
   Object A will not hit object B
20 5.0 m        -565.0 m        -47.2 m/s^2
```

```
20 Object A will not hit object B
21 5.0 m        -562.5 m        -47.0 m/s^2
   Object A will not hit object B
22 5.0 m        -560.0 m        -46.8 m/s^2
   Object A will not hit object B
23 5.0 m        -557.5 m        -46.6 m/s^2
   Object A will not hit object B
24 5.0 m        -555.0 m        -46.4 m/s^2
   Object A will not hit object B
25 5.0 m        -552.5 m        -46.2 m/s^2
   Object A will not hit object B
26 5.0 m        -550.0 m        -46.0 m/s^2
   Object A will not hit object B
27 5.0 m        -547.5 m        -45.8 m/s^2
   Object A will not hit object B
28 5.0 m        -545.0 m        -45.6 m/s^2
   Object A will not hit object B
29 5.0 m        -542.5 m        -45.4 m/s^2
   Object A will not hit object B
30 5.0 m        -540.0 m        -45.2 m/s^2
   Object A will not hit object B
31 5.0 m        -537.5 m        -45.0 m/s^2
   Object A will not hit object B
32 5.0 m        -535.0 m        -44.8 m/s^2
   Object A will not hit object B
33 5.0 m        -532.5 m        -44.6 m/s^2
   Object A will not hit object B
34 5.0 m        -530.0 m        -44.4 m/s^2
   Object A will not hit object B
35 5.0 m        -527.5 m        -44.2 m/s^2
   Object A will not hit object B
36 5.0 m        -525.0 m        -44.0 m/s^2
   Object A will not hit object B
37 5.0 m        -522.5 m        -43.8 m/s^2
   Object A will not hit object B
38 5.0 m        -520.0 m        -43.6 m/s^2
   Object A will not hit object B
39 5.0 m        -517.5 m        -43.4 m/s^2
   Object A will not hit object B
40 5.0 m        -515.0 m        -43.2 m/s^2
   Object A will not hit object B
```

```
41 5.0 m        -512.5 m        -43.0 m/s^2
   Object A will not hit object B
42 5.0 m        -510.0 m        -42.8 m/s^2
   Object A will not hit object B
43 5.0 m        -507.5 m        -42.6 m/s^2
   Object A will not hit object B
44 5.0 m        -505.0 m        -42.4 m/s^2
   Object A will not hit object B
45 5.0 m        -502.5 m        -42.2 m/s^2
   Object A will not hit object B
46 5.0 m        -500.0 m        -42.0 m/s^2
   Object A will not hit object B
47 5.0 m        -497.5 m        -41.8 m/s^2
   Object A will not hit object B
48 5.0 m        -495.0 m        -41.6 m/s^2
   Object A will not hit object B
49 5.0 m        -492.5 m        -41.4 m/s^2
   Object A will not hit object B
50 5.0 m        -490.0 m        -41.2 m/s^2
   Object A will not hit object B
51 5.0 m        -487.5 m        -41.0 m/s^2
   Object A will not hit object B
52 5.0 m        -485.0 m        -40.8 m/s^2
   Object A will not hit object B
53 5.0 m        -482.5 m        -40.6 m/s^2
   Object A will not hit object B
54 5.0 m        -480.0 m        -40.4 m/s^2
   Object A will not hit object B
55 5.0 m        -477.5 m        -40.2 m/s^2
   Object A will not hit object B
56 5.0 m        -475.0 m        -40.0 m/s^2
   Object A will not hit object B
57 5.0 m        -472.5 m        -39.8 m/s^2
   Object A will not hit object B
58 5.0 m        -470.0 m        -39.6 m/s^2
   Object A will not hit object B
59 5.0 m        -467.5 m        -39.4 m/s^2
   Object A will not hit object B
60 5.0 m        -465.0 m        -39.2 m/s^2
   Object A will not hit object B
61 5.0 m        -462.5 m        -39.0 m/s^2
```

```
 61 Object A will not hit object B
 62 5.0 m        -460.0 m        -38.8 m/s^2
    Object A will not hit object B
 63 5.0 m        -457.5 m        -38.6 m/s^2
    Object A will not hit object B
 64 5.0 m        -455.0 m        -38.4 m/s^2
    Object A will not hit object B
 65 5.0 m        -452.5 m        -38.2 m/s^2
    Object A will not hit object B
 66 5.0 m        -450.0 m        -38.0 m/s^2
    Object A will not hit object B
 67 5.0 m        -447.5 m        -37.8 m/s^2
    Object A will not hit object B
 68 5.0 m        -445.0 m        -37.6 m/s^2
    Object A will not hit object B
 69 5.0 m        -442.5 m        -37.4 m/s^2
    Object A will not hit object B
 70 5.0 m        -440.0 m        -37.2 m/s^2
    Object A will not hit object B
 71 5.0 m        -437.5 m        -37.0 m/s^2
    Object A will not hit object B
 72 5.0 m        -435.0 m        -36.8 m/s^2
    Object A will not hit object B
 73 5.0 m        -432.5 m        -36.6 m/s^2
    Object A will not hit object B
 74 5.0 m        -430.0 m        -36.4 m/s^2
    Object A will not hit object B
 75 5.0 m        -427.5 m        -36.2 m/s^2
    Object A will not hit object B
 76 5.0 m        -425.0 m        -36.0 m/s^2
    Object A will not hit object B
 77 5.0 m        -422.5 m        -35.8 m/s^2
    Object A will not hit object B
 78 5.0 m        -420.0 m        -35.6 m/s^2
    Object A will not hit object B
 79 5.0 m        -417.5 m        -35.4 m/s^2
    Object A will not hit object B
 80 5.0 m        -415.0 m        -35.2 m/s^2
    Object A will not hit object B
 81 5.0 m        -412.5 m        -35.0 m/s^2
    Object A will not hit object B
```

```
 82 5.0 m         -410.0 m         -34.8 m/s^2
    Object A will not hit object B
 83 5.0 m         -407.5 m         -34.6 m/s^2
    Object A will not hit object B
 84 5.0 m         -405.0 m         -34.4 m/s^2
    Object A will not hit object B
 85 5.0 m         -402.5 m         -34.2 m/s^2
    Object A will not hit object B
 86 5.0 m         -400.0 m         -34.0 m/s^2
    Object A will not hit object B
 87 5.0 m         -397.5 m         -33.8 m/s^2
    Object A will not hit object B
 88 5.0 m         -395.0 m         -33.6 m/s^2
    Object A will not hit object B
 89 5.0 m         -392.5 m         -33.4 m/s^2
    Object A will not hit object B
 90 5.0 m         -390.0 m         -33.2 m/s^2
    Object A will not hit object B
 91 5.0 m         -387.5 m         -33.0 m/s^2
    Object A will not hit object B
 92 5.0 m         -385.0 m         -32.8 m/s^2
    Object A will not hit object B
 93 5.0 m         -382.5 m         -32.6 m/s^2
    Object A will not hit object B
 94 5.0 m         -380.0 m         -32.4 m/s^2
    Object A will not hit object B
 95 5.0 m         -377.5 m         -32.2 m/s^2
    Object A will not hit object B
 96 5.0 m         -375.0 m         -32.0 m/s^2
    Object A will not hit object B
 97 5.0 m         -372.5 m         -31.8 m/s^2
    Object A will not hit object B
 98 5.0 m         -370.0 m         -31.6 m/s^2
    Object A will not hit object B
 99 5.0 m         -367.5 m         -31.4 m/s^2
    Object A will not hit object B
100 5.0 m         -365.0 m         -31.2 m/s^2
    Object A will not hit object B
101 5.0 m         -362.5 m         -31.0 m/s^2
    Object A will not hit object B
102 5.0 m         -360.0 m         -30.8 m/s^2
```

```
102 Object A will not hit object B
103 5.0 m        -357.5 m        -30.6 m/s^2
    Object A will not hit object B
104 5.0 m        -355.0 m        -30.4 m/s^2
    Object A will not hit object B
105 5.0 m        -352.5 m        -30.2 m/s^2
    Object A will not hit object B
106 5.0 m        -350.0 m        -30.0 m/s^2
    Object A will not hit object B
107 5.0 m        -347.5 m        -29.8 m/s^2
    Object A will not hit object B
108 5.0 m        -345.0 m        -29.6 m/s^2
    Object A will not hit object B
109 5.0 m        -342.5 m        -29.4 m/s^2
    Object A will not hit object B
110 5.0 m        -340.0 m        -29.2 m/s^2
    Object A will not hit object B
111 5.0 m        -337.5 m        -29.0 m/s^2
    Object A will not hit object B
112 5.0 m        -335.0 m        -28.8 m/s^2
    Object A will not hit object B
113 5.0 m        -332.5 m        -28.6 m/s^2
    Object A will not hit object B
114 5.0 m        -330.0 m        -28.4 m/s^2
    Object A will not hit object B
115 5.0 m        -327.5 m        -28.2 m/s^2
    Object A will not hit object B
116 5.0 m        -325.0 m        -28.0 m/s^2
    Object A will not hit object B
117 5.0 m        -322.5 m        -27.8 m/s^2
    Object A will not hit object B
118 5.0 m        -320.0 m        -27.6 m/s^2
    Object A will not hit object B
119 5.0 m        -317.5 m        -27.4 m/s^2
    Object A will not hit object B
120 5.0 m        -315.0 m        -27.2 m/s^2
    Object A will not hit object B
121 5.0 m        -312.5 m        -27.0 m/s^2
    Object A will not hit object B
122 5.0 m        -310.0 m        -26.8 m/s^2
    Object A will not hit object B
```

```
123 5.0 m        -307.5 m        -26.6 m/s^2
    Object A will not hit object B
124 5.0 m        -305.0 m        -26.4 m/s^2
    Object A will not hit object B
125 5.0 m        -302.5 m        -26.2 m/s^2
    Object A will not hit object B
126 5.0 m        -300.0 m        -26.0 m/s^2
    Object A will not hit object B
127 5.0 m        -297.5 m        -25.8 m/s^2
    Object A will not hit object B
128 5.0 m        -295.0 m        -25.6 m/s^2
    Object A will not hit object B
129 5.0 m        -292.5 m        -25.4 m/s^2
    Object A will not hit object B
130 5.0 m        -290.0 m        -25.2 m/s^2
    Object A will not hit object B
131 5.0 m        -287.5 m        -25.0 m/s^2
    Object A will not hit object B
132 5.0 m        -285.0 m        -24.8 m/s^2
    Object A will not hit object B
133 5.0 m        -282.5 m        -24.6 m/s^2
    Object A will not hit object B
134 5.0 m        -280.0 m        -24.4 m/s^2
    Object A will not hit object B
135 5.0 m        -277.5 m        -24.2 m/s^2
    Object A will not hit object B
136 5.0 m        -275.0 m        -24.0 m/s^2
    Object A will not hit object B
137 5.0 m        -272.5 m        -23.8 m/s^2
    Object A will not hit object B
138 5.0 m        -270.0 m        -23.6 m/s^2
    Object A will not hit object B
139 5.0 m        -267.5 m        -23.4 m/s^2
    Object A will not hit object B
140 5.0 m        -265.0 m        -23.2 m/s^2
    Object A will not hit object B
141 5.0 m        -262.5 m        -23.0 m/s^2
    Object A will not hit object B
142 5.0 m        -260.0 m        -22.8 m/s^2
    Object A will not hit object B
143 5.0 m        -257.5 m        -22.6 m/s^2
```

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143 Object A will not hit object B
144 5.0 m        -255.0 m        -22.4 m/s^2
    Object A will not hit object B
145 5.0 m        -252.5 m        -22.2 m/s^2
    Object A will not hit object B
146 5.0 m        -250.0 m        -22.0 m/s^2
    Object A will not hit object B
147 5.0 m        -247.5 m        -21.8 m/s^2
    Object A will not hit object B
148 5.0 m        -245.0 m        -21.6 m/s^2
    Object A will not hit object B
149 5.0 m        -242.5 m        -21.4 m/s^2
    Object A will not hit object B
150 5.0 m        -240.0 m        -21.2 m/s^2
    Object A will not hit object B
151 5.0 m        -237.5 m        -21.0 m/s^2
    Object A will not hit object B
152 5.0 m        -235.0 m        -20.8 m/s^2
    Object A will not hit object B
153 5.0 m        -232.5 m        -20.6 m/s^2
    Object A will not hit object B
154 5.0 m        -230.0 m        -20.4 m/s^2
    Object A will not hit object B
155 5.0 m        -227.5 m        -20.2 m/s^2
    Object A will not hit object B
156 5.0 m        -225.0 m        -20.0 m/s^2
    Object A will not hit object B
157 5.0 m        -222.5 m        -19.8 m/s^2
    Object A will not hit object B
158 5.0 m        -220.0 m        -19.6 m/s^2
    Object A will not hit object B
159 5.0 m        -217.5 m        -19.4 m/s^2
    Object A will not hit object B
160 5.0 m        -215.0 m        -19.2 m/s^2
    Object A will not hit object B
161 5.0 m        -212.5 m        -19.0 m/s^2
    Object A will not hit object B
162 5.0 m        -210.0 m        -18.8 m/s^2
    Object A will not hit object B
163 5.0 m        -207.5 m        -18.6 m/s^2
    Object A will not hit object B
```

```
164 5.0 m        -205.0 m        -18.4 m/s^2
    Object A will not hit object B
165 5.0 m        -202.5 m        -18.2 m/s^2
    Object A will not hit object B
166 5.0 m        -200.0 m        -18.0 m/s^2
    Object A will not hit object B
167 5.0 m        -197.5 m        -17.8 m/s^2
    Object A will not hit object B
168 5.0 m        -195.0 m        -17.6 m/s^2
    Object A will not hit object B
169 5.0 m        -192.5 m        -17.4 m/s^2
    Object A will not hit object B
170 5.0 m        -190.0 m        -17.2 m/s^2
    Object A will not hit object B
171 5.0 m        -187.5 m        -17.0 m/s^2
    Object A will not hit object B
172 5.0 m        -185.0 m        -16.8 m/s^2
    Object A will not hit object B
173 5.0 m        -182.5 m        -16.6 m/s^2
    Object A will not hit object B
174 5.0 m        -180.0 m        -16.4 m/s^2
    Object A will not hit object B
175 5.0 m        -177.5 m        -16.2 m/s^2
    Object A will not hit object B
176 5.0 m        -175.0 m        -16.0 m/s^2
    Object A will not hit object B
177 5.0 m        -172.5 m        -15.8 m/s^2
    Object A will not hit object B
178 5.0 m        -170.0 m        -15.6 m/s^2
    Object A will not hit object B
179 5.0 m        -167.5 m        -15.4 m/s^2
    Object A will not hit object B
180 5.0 m        -165.0 m        -15.2 m/s^2
    Object A will not hit object B
181 5.0 m        -162.5 m        -15.0 m/s^2
    Object A will not hit object B
182 5.0 m        -160.0 m        -14.8 m/s^2
    Object A will not hit object B
183 5.0 m        -157.5 m        -14.6 m/s^2
    Object A will not hit object B
184 5.0 m        -155.0 m        -14.4 m/s^2
```

```
184 Object A will not hit object B
185 5.0 m        -152.5 m        -14.2 m/s^2
    Object A will not hit object B
186 5.0 m        -150.0 m        -14.0 m/s^2
    Object A will not hit object B
187 5.0 m        -147.5 m        -13.8 m/s^2
    Object A will not hit object B
188 5.0 m        -145.0 m        -13.6 m/s^2
    Object A will not hit object B
189 5.0 m        -142.5 m        -13.4 m/s^2
    Object A will not hit object B
190 5.0 m        -140.0 m        -13.2 m/s^2
    Object A will not hit object B
191 5.0 m        -137.5 m        -13.0 m/s^2
    Object A will not hit object B
192 5.0 m        -135.0 m        -12.8 m/s^2
    Object A will not hit object B
193 5.0 m        -132.5 m        -12.6 m/s^2
    Object A will not hit object B
194 5.0 m        -130.0 m        -12.4 m/s^2
    Object A will not hit object B
195 5.0 m        -127.5 m        -12.2 m/s^2
    Object A will not hit object B
196 5.0 m        -125.0 m        -12.0 m/s^2
    Object A will not hit object B
197 5.0 m        -122.5 m        -11.8 m/s^2
    Object A will not hit object B
198 5.0 m        -120.0 m        -11.6 m/s^2
    Object A will not hit object B
199 5.0 m        -117.5 m        -11.4 m/s^2
    Object A will not hit object B
200 5.0 m        -115.0 m        -11.2 m/s^2
    Object A will not hit object B
201 5.0 m        -112.5 m        -11.0 m/s^2
    Object A will not hit object B
202 5.0 m        -110.0 m        -10.8 m/s^2
    Object A will not hit object B
203 5.0 m        -107.5 m        -10.6 m/s^2
    Object A will not hit object B
204 5.0 m        -105.0 m        -10.4 m/s^2
    Object A will not hit object B
```

```
205 5.0 m        -102.5 m        -10.2 m/s^2
    Object A will not hit object B
206 5.0 m        -100.0 m        -10.0 m/s^2
    Object A will not hit object B
207 5.0 m        -97.5 m         -9.8 m/s^2
    Object A will not hit object B
208 5.0 m        -95.0 m         -9.6 m/s^2
    Object A will not hit object B
209 5.0 m        -92.5 m         -9.4 m/s^2
    Object A will not hit object B
210 5.0 m        -90.0 m         -9.2 m/s^2
    Object A will not hit object B
211 5.0 m        -87.5 m         -9.0 m/s^2
    Object A will not hit object B
212 5.0 m        -85.0 m         -8.8 m/s^2
    Object A will not hit object B
213 5.0 m        -82.5 m         -8.6 m/s^2
    Object A will not hit object B
214 5.0 m        -80.0 m         -8.4 m/s^2
    Object A will not hit object B
215 5.0 m        -77.5 m         -8.2 m/s^2
    Object A will not hit object B
216 5.0 m        -75.0 m         -8.0 m/s^2
    Object A will not hit object B
217 5.0 m        -72.5 m         -7.8 m/s^2
    Object A will not hit object B
218 5.0 m        -70.0 m         -7.6 m/s^2
    Object A will not hit object B
219 5.0 m        -67.5 m         -7.4 m/s^2
    Object A will not hit object B
220 5.0 m        -65.0 m         -7.2 m/s^2
    Object A will not hit object B
221 5.0 m        -62.5 m         -7.0 m/s^2
    Object A will not hit object B
222 5.0 m        -60.0 m         -6.8 m/s^2
    Object A will not hit object B
223 5.0 m        -57.5 m         -6.6 m/s^2
    Object A will not hit object B
224 5.0 m        -55.0 m         -6.4 m/s^2
    Object A will not hit object B
225 5.0 m        -52.5 m         -6.2 m/s^2
```

```
225 Object A will not hit object B
226 5.0 m        -50.0 m         -6.0 m/s^2
    Object A will not hit object B
227 5.0 m        -47.5 m         -5.8 m/s^2
    Object A will not hit object B
228 5.0 m        -45.0 m         -5.6 m/s^2
    Object A will not hit object B
229 5.0 m        -42.5 m         -5.4 m/s^2
    Object A will not hit object B
230 5.0 m        -40.0 m         -5.2 m/s^2
    Object A will not hit object B
231 5.0 m        -37.5 m         -5.0 m/s^2
    Object A will not hit object B
232 5.0 m        -35.0 m         -4.8 m/s^2
    Object A will not hit object B
233 5.0 m        -32.5 m         -4.6 m/s^2
    Object A will not hit object B
234 5.0 m        -30.0 m         -4.4 m/s^2
    Object A will not hit object B
235 5.0 m        -27.5 m         -4.2 m/s^2
    Object A will not hit object B
236 5.0 m        -25.0 m         -4.0 m/s^2
    Object A will not hit object B
237 5.0 m        -22.5 m         -3.8 m/s^2
    Object A will not hit object B
238 5.0 m        -20.0 m         -3.6 m/s^2
    Object A will not hit object B
239 5.0 m        -17.5 m         -3.4 m/s^2
    Object A will not hit object B
240 5.0 m        -15.0 m         -3.2 m/s^2
    Object A will not hit object B
241 5.0 m        -12.5 m         -3.0 m/s^2
    Object A will not hit object B
242 5.0 m        -10.0 m         -2.8 m/s^2
    Object A will not hit object B
243 5.0 m        -7.5 m          -2.6 m/s^2
    Object A will not hit object B
244 5.0 m        -5.0 m          -2.4 m/s^2
    Object A will not hit object B
245 5.0 m        -2.5 m          -2.2 m/s^2
    Object A will not hit object B
```

```
246 5.0 m         0.0 m        -2.0 m/s^2
    Object A will not hit object B
247 5.0 m         2.5 m        -1.8 m/s^2
    Object A will not hit object B
248 5.0 m         5.0 m        -1.6 m/s^2
    Object A will hit object B
249 5.0 m         7.5 m        -1.4 m/s^2
    Object A will hit object B
250 5.0 m         10.0 m           -1.2 m/s^2
    Object A will hit object B
251 5.0 m         12.5 m           -1.0 m/s^2
    Object A will hit object B
252 5.0 m         15.0 m           -0.8 m/s^2
    Object A will hit object B
253 5.0 m         17.5 m           -0.6 m/s^2
    Object A will hit object B
254 5.0 m         20.0 m           -0.4 m/s^2
    Object A will hit object B
255 5.0 m         22.5 m           -0.2 m/s^2
    Object A will hit object B
256 ================================================
    ================================================
257
258 Process finished with exit code 0
259
```