

Problem 1

solution

$$P_A = (x_A, y_A, z_A)$$

$$P_B = (x_B, y_B, z_B)$$

Problem 2

solution

```
5     for i in range(5):  
6         print i
```

```
1 #!/usr/bin/env python  
2  
3 if __name__ == "__main__":  
4  
5     for i in range(5):  
6         print i
```

Code 1: demo