

21 NSI 01

```
In [ ]: from math import sqrt    # import de la fonction racine carrée
```



```
In [ ]: def distance(point1, point2):  
    """ Calcule et renvoie la distance entre deux points. """  
    return sqrt((...)**2 + (...)**2)
```



```
In [ ]: assert distance((1, 0), (5, 3)) == 5.0, "erreur de calcul"
```



```
In [ ]: def plus_courte_distance(tab, depart):  
    """ Renvoie le point du tableau tab se trouvant à la plus  
    courte distance du point depart. """  
    point = tab[0]  
    min_dist = ...  
    for i in range(1, ...):  
        if distance(tab[i], depart)...:  
            point = ...  
            min_dist = ...  
    return point
```



```
In [ ]: assert plus_courte_distance([(7, 9), (2, 5), (5, 2)], (0, 0)) == [2, 5],  
    "erreur"
```

