

Correction sujet épreuve pratique bac NSI

Exercice 1 :

```
def recherche(tab, n):  
    ind = None  
    for i in range(len(tab)):  
        if tab[i] == n:  
            ind = i  
    return ind
```

Exercice 2 :

```
def distance_carre(point1, point2):  
    """ Calcule et renvoie la distance au carre entre  
    deux points."""  
    return (point1[0] - point2[0])**2 + (point1[1] -  
    point2[1])**2  
  
def point_le_plus_proche(depart, tab):
```

""" Renvoie les coordonnées du premier point du tableau
tab se trouvant à la plus courte distance du point
depart."""

```
min_point = tab[0]
```

```
min_dist = distance_carre(tab[0], depart)
```

```
for i in range(1, len(tab)):
```

```
    if distance_carre(tab[i], depart) < min_dist:
```

```
        min_point = tab[i]
```

```
        min_dist = distance_carre(tab[i], depart)
```

```
return min_point
```