## DK

```
In [ ]: import pygame
                                                                                                  Q
         from pygame.locals import *
In [ ]:
         laby_DK = [[2, 0, 0, 1, 1, 1, 1, 1, 0, 1, 0, 0, 1, 1, 1],
                                                                                                  Q
                     [0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 1, 0, 1, 1, 1],
                    [0, 0, 1, 1, 0, 1, 0, 0, 0, 1, 0, 0, 1, 1, 1],
                    [1, 0, 0, 0, 1, 1, 1, 1, 0, 0, 0, 1, 1, 1, 1],
                    [0, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1, 0, 0, 1],
                    [1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 0, 0, 0, 1, 1],
                    [0, 0, 0, 1, 1, 1, 0, 0, 0, 0, 1, 1, 1, 1, 1],
                    [0, 1, 0, 0, 0, 1, 1, 0, 1, 0, 0, 0, 1, 1, 1],
                    [0, 1, 1, 0, 0, 0, 1, 0, 1, 0, 0, 0, 1, 1, 1],
                    [1, 1, 1, 0, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1],
                    [1, 1, 1, 0, 1, 1, 0, 1, 0, 0, 1, 1, 0, 0, 1],
                    [1, 0, 0, 0, 1, 0, 0, 1, 0, 1, 1, 0, 0, 1, 1],
                    [0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 1, 1],
                    [1, 1, 1, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 1],
                    [1, 0, 0, 0, 0, 0, 1, 1, 0, 0, 1, 0, 0, 0, 3]]
         largeur, hauteur = len(laby_DK[0]), len(laby_DK)
                                                                                                  Q
In [ ]:
In [ ]:
         def init_fond():
                                                                                                  Q
             fenetre.blit(fond, (0,0))
             for x in range(largeur):
                 for y in range(hauteur):
                     if laby_DK[y][x] == 1:
                          fenetre.blit(mur, Rect(30*x, 30*y, 30, 30))
                     elif laby_DK[y][x] == 2:
                         fenetre.blit(entree, Rect(30*x, 30*y, 30, 30))
                     elif laby_DK[y][x] == 3:
                          fenetre.blit(sortie, Rect(30*x, 30*y, 30, 30))
         def move_right(pos):
In [ ]:
                                                                                                  Q
             global perso
             perso = dk_droite
             x_{pos}, y_{pos} = pos[0]//30, pos[1]//30
             if x_pos < largeur-1 and laby_DK[y_pos][x_pos+1] != 1:</pre>
                 return pos.move(30, 0)
             else:
                 return pos
In [ ]:
         def move_left(pos):
                                                                                                  Q
             global perso
             perso = dk_gauche
             x_{pos}, y_{pos} = pos[0]//30, pos[1]//30
             if x_pos > 0 and laby_DK[y_pos][x_pos-1] != 1:
                 return pos.move(-30, 0)
             else:
                 return pos
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In [ ]:
         def move_up(pos):
             global perso
             perso = dk_haut
             x_{pos}, y_{pos} = pos[0]//30, pos[1]//30
             if y_pos > 0 and laby_DK[y_pos-1][x_pos] != 1:
                 return pos.move(0, -30)
             else:
                 return pos
In [ ]:
         def move_down(pos):
                                                                                                  Q
             global perso
             perso = dk_bas
             x_{pos}, y_{pos} = pos[0]//30, pos[1]//30
             if y_pos < hauteur - 1 and laby_DK[y_pos+1][x_pos] != 1:</pre>
                 return pos.move(0, 30)
             else:
                 return pos
         pygame.init()
                                                                                                  Q
In [ ]:
In [ ]:
         #Ouverture de la fenêtre Pygame
                                                                                                  Q
         fenetre = pygame.display.set_mode((450, 450))
         pygame.display.set_caption("DK Labyrinthe")
In [ ]:
         #Texte victoire
                                                                                                  0
         myfont = pygame.font.SysFont("Deja Vu Sans MS", 80)
         texte = "Gagné !"
         label_victoire = myfont.render(texte, True, (255, 0, 0),)
In [ ]:
                                                                                                  Q
In [ ]:
         #Chargement et collage du fond
                                                                                                  Q
         fond =
         pygame.image.load("/home/cedric/Travail/AlgoInfo/CodesPython/PyGame/DK/fond.jpg").convert
         fenetre.blit(fond, (0,0))
In [ ]:
        #Chargement des images
                                                                                                  Q
         pygame.image.load("/home/cedric/Travail/AlgoInfo/CodesPython/PyGame/DK/dk_bas.png").conver
         dk_haut =
         pygame.image.load("/home/cedric/Travail/AlgoInfo/CodesPython/PyGame/DK/dk_haut.png").conve
         dk_gauche =
         pygame.image.load("/home/cedric/Travail/AlgoInfo/CodesPython/PyGame/DK/dk_gauche.png").cor
         dk_droite =
         pygame.image.load("/home/cedric/Travail/AlgoInfo/CodesPython/PyGame/DK/dk_droite.png").com
         perso = dk_droite
                                                                                                  Q
In [ ]:
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In [ ]: position_perso = perso.get_rect()
                                                                                                Q
         pygame.image.load("/home/cedric/Travail/AlgoInfo/CodesPython/PyGame/DK/mur.png").convert()
         pygame.image.load("/home/cedric/Travail/AlgoInfo/CodesPython/PyGame/DK/depart.png").conver
         sortie =
         pygame.image.load("/home/cedric/Travail/AlgoInfo/CodesPython/PyGame/DK/arrivee.png").conve
         fenetre.blit(perso, position_perso)
In [ ]: #Rafraîchissement de l'écran
                                                                                                Q
         pygame.display.flip()
         pygame.key.set_repeat(400, 30)
In [ ]: #BOUCLE INFINIE
                                                                                                 Q
         continuer = True
         while continuer:
             for event in pygame.event.get(): #Attente des événements
                 if event.type == QUIT:
                     continuer = False
                 if event.type == KEYDOWN:
                     if event.key == K_DOWN:
                         position_perso = move_down(position_perso)
                     if event.key == K_UP:
                         position_perso = move_up(position_perso)
                     if event.key == K_RIGHT:
                         position_perso = move_right(position_perso)
                     if event.key == K_LEFT:
                         position_perso = move_left(position_perso)
             #Re-collage
               fenetre.blit(fond, (0,0))
             init_fond()
             fenetre.blit(perso, position_perso)
             #Rafraichissement
             pygame.display.flip()
             if laby_DK[position_perso[1]//30][position_perso[0]//30] == 3:
                 continuer = False
                 fenetre.blit(label_victoire, ((450-myfont.size(texte)[0])//2, (450-
         myfont.size(texte)[1])//2))
                 pygame.display.flip()
                 pygame.time.delay(2000)
In [ ]:
         pygame.quit()
                                                                                                Q
```