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| IoT를 활용한 반려동물 케어 장치  Pet caring device with Internet Of Things  김유진, 장우진, 장준혁, 이인복  한국항공대학교 소프트웨어학과  요약문  본 연구는 실내 측위 기슬에 기반하여 반려동물을 caring하는 device를 개발하고자 한 연구이다. 비컨과 라즈베리파이, 안드로이드 어플리케이션을 이용해 설계한다.  **핵심용어**: 비콘, 실내측위, 칼만필터, 센서 |

I. 서 론

19년 7월 기준 대한민국 반려동물 인구는 1400만이 넘고, 이에 따라 ‘펫 시장’의 규모도 점점 성장하여 2018년에는 3조 6500억원, 2020년에는 6조원에 달할거라 예상되고 있다. 한국의 인구가 감소되는 시점 이후에도 1인가구 수는 계속 증가할 것이고, 1인가구의 반려동물은 "강아지" 보다는 "고양이"를 선호한다고 한다.(출처 2019 KB 한국 1인가구 보고서)

집주인이 외출을 한 상태에서 반려동물은 오랜 시간동안 집 안에 혼자 있어야 하는 경우가 많아질 것이라는 것을 알 수 있다. 이에 따라 외출한 상태에서도 반려동물을 케어할 수 있는 시스템의 필요성이 증가하였다.

본 연구는 실내 측위 기술을 기반으로 실내에서 반려동물의 위치를 찾아가 care하는 system을 개발하는 연구이다.

실내 측위는 비콘 센서를 이용한 삼각측량 알고리즘을 이용하여 구현한다.

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II. 연구 목표

본 연구는 반려동물이 빈 집에서 혼자 있을 때 주인들이 걱정하지 않고 외출할 수 있도록 반려동물을 돌보는 장치를 만드는 것을 목표로 한다.

라즈베리파이와 초음파 센서, 적외선 센서을 이용하여 반려동물의 위치를 파악하여 자동으로 반려동물 방향으로 찾아가는 캣타워를 만든다.

실내에서 반려동물의 위치를 계산하기 위해 아두이노 우노와 HM-10모듈을 이용하여 비콘을 만든다.

안드로이드 어플리케이션을 통해 핸드폰을 통해 캣타워의 기능를 제어할 수 있도록 한다.

III. 구현

3-1. 비콘 센서 구현

HM-10모듈과 아두이노를 사용해서 AT-command를 통해 모듈을 비콘화 시킨다. D = 10 ^ ((TXpower-RSSI) / (10\*n) ) 식을 사용하여 거리 값을 계산한다.

![개체, 시계이(가) 표시된 사진

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6/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvpuSZ8oHBgP+AwID/gMCA/YDAgMeAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMBvpm/IAwQD/gAAAP8AAADoAAAACwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAagAAAP8AAAD/LCke8L6yf8DAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMCxpXbFBwYF/QAAAP8MEAv+pd6X8K/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg75bVj/iAwID/gMCA/4DAgOqAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAM00z5gAAAP8AAAD/AAAAbgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAA7AAAAP8CAgL+nJFozMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMBjXELfAAAA/wAAAP9be1P3r+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg763qnvCFxYP9gMCA/4DAgP+AwIDPgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAcalxxwMFA/4AAAD/AAAA4QAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACOAAAA/wAAAP9LRjLmwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwLmte8IPDgr6AAAA/wgLCP6k3Zbwr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+e3JT1gMCA/4DAgP+AwIDygMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAw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6/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg763qnvCAwID/gMCA/4DAgOyAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMAdKx3xAAAA/wAAAPgAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAogAAAP8AAAD/qZ5xx8CzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwC0qHvAAAAD/BAYE/6zone+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+GxoT9gMCA/4DAgPiAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMA0TjTlAAAA/wAAAP8AAAAqAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAzwAAAP8LCwj7wLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwBEPC/oAAAD/GyQY/a/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+Pzor6gMCA/4DAgP+AwIDEgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMBGaUbdAAAA/wAAAP8AAABPAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFAAAA+AAAAP8tKh7wwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwAAAAP8AAAD/AAAA/xQSDfl+dlTVwLOAwMCzgMCdkmjMOzcn7AAAAP/As4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAuKt6wwAAAP8AAAD/MUIt+6/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvAAAA/6/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+X1Y/4gMCA/4DAgP+AwIDPgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAw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6/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+i35b0gMCA/4DAgP+AwIDdgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAebV5wy1ELekgMCDvcqxyx4DAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMByq3LHAAAA/wAAAP8AAAClAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAXAAAA/wAAAP9BPCvqwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwKabb8hSTTfkFBMO+FpUPOKsoXPGwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAqZ5xxwAAAP8AAAD/P1U6+a/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO8VHRP9FR0T/a/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+b2pL2gMCA/4DAgP+AwIDVgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMBPd0/YEBcQ91qHWtOAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMBhkWHPAAAA/wAAAP8AAACFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA7QAAAP8hHxb0wLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMCXjWXNQDwr6hoYEfdsZEjctqp5w8CzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAvrF+wQQEA/4AAAD/KTgm+6/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+U0434gMCA/4DAgP+AwIDLgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAbKJsyhgkGPM4VDjjfLt8woDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMBReVHXAAAA/wAAAP8AAABjAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwAAAAP8DAwL+u658wsCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMC+sn/AhXxZ0y4rH/AmJBryfnVU1r2wfsHAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwBoYEfcAAAD/ExoS/a/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+QwoTyjsCC8q/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+Lyof7gMCA/4DAgP6AwIDBgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAw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6/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvm9mS9oDAgP+AwID/gMCA6IDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwHy6fMI1TzXlGica8m6lbsmAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwH69fsEQFxD3AAAA/wAAAPkAAAAYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAADdAAAA/wAAAP+SiGHPwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwJWLY84AAAD/AAAA/y4+Kvuv7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO8fKhz8AAAA/6nkmvCv7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+s6Z3xg8OC/oDAgP+AwID+gMCAyYDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAV4JX1A8XD/hTfFPWgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwFV/VdUAAAD/AAAA/wAAAKEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABZAAAA/wAAAP8lIhnzvrJ/wMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMAqJxzxAAAA/wAAAP+Nv4Hyr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO9FXT/5Lz8r+6fimfCv7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+V0474gMCA/4DAgP+AwIDmgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAZZhlzRgjGPMCAwL+EhoS9lqIWtOAwIDAgMCAwHGpcccdLB3xMUkx53q4esOAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwBonGvIAAAD/AAAA/gAAAC4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAxgAAAP8AAAD/dW1O2cCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOA1sCzgOXAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMDAs4DAwLOAwMCzgMB/d1XVAAAA/wAAAP86TjX6r+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76/soO+v7KDvr+yg76flmvKBwYD/gMCA/4DAgPuAwIDFgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAwIDAgMCAw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QByAG4AYQBTAHoA7QBuAGUAcwAgAEwAQwBEAEIAYQByAGUAdgBuAP0AIABMAEMARABMAEMARAAtAGYAYQByAHYAZQBzAGsA5gByAG0ASwBsAGUAdQByAGUAbgAtAEwAQwBEAFYA5AByAGkALQBMAEMARABMAEMARAAgAGMAbwBsAG8AcgBpAEwAQwBEACAAYwBvAGwAbwByIA8ATABDAEQAIAZFBkQGSAZGBikEGgQ+BDsETAQ+BEAEPgQyBDgEOQAgAEwAQwBEIA8ATABDAEQAIAXmBdEF4gXVBeAF2V9pgnIAIABMAEMARABMAEMARAAgAE0A4AB1AEYAYQByAGUAYgBuAP0AIABMAEMARAQmBDIENQRCBD0EPgQ5ACAEFgQaAC0ENAQ4BEEEPwQ7BDUEOQBMAEMARAAgAGMAbwB1AGwAZQB1AHIAVwBhAHIAbgBhACAATABDAEQJMAkCCRcJQAkoACAATABDAEQATABDAEQAIA4qDjUATABDAEQAIABlAG4AIABjAG8AbABvAHIARgBhAHIAYgAtAEwAQwBEAEMAbwBsAG8AcgAgAEwAQwBEAEwAQwBEACAAQwBvAGwAbwByAGkAZABvAEsAbwBsAG8AcgAgAEwAQwBEA4gDswPHA8EDyQO8A7cAIAO/A7gDzAO9A7cAIABMAEMARABGAOQAcgBnAC0ATABDAEQAUgBlAG4AawBsAGkAIABMAEMARABMAEMARAAgAGEAIABDAG8AcgBlAHMwqzDpMPwATABDAEQAAHRleHQAAAAAQ29weXJpZ2h0IEFwcGxlIEluYy4sIDIwMTkAAFhZWiAAAAAAAADzFgABAAAAARbKWFlaIAAAAAAAAHHAAAA5igAAAWdYWVogAAAAAAAAYSMAALnmAAAT9lhZWiAAAAAAAAAj8gAADJAAAL3QY3VydgAAAAAAAAQAAAAABQAKAA8AFAAZAB4AIwAoAC0AMgA2ADsAQABFAEoATwBUAFkAXgBjAGgAbQByAHcAfACBAIYAiwCQAJUAmgCfAKMAqACtALIAtwC8AMEAxgDLANAA1QDbAOAA5QDrAPAA9gD7AQEBBwENARMBGQEfASUBKwEyATgBPgFFAUwBUgFZAWABZwFuAXUBfAGDAYsBkgGaAaEBqQGxAbkBwQHJAdEB2QHhAekB8gH6AgMCDAIUAh0CJgIvAjgCQQJLAlQCXQJnAnECegKEAo4CmAKiAqwCtgLBAssC1QLgAusC9QMAAwsDFgMhAy0DOANDA08DWgNmA3IDfgOKA5YDogOuA7oDxwPTA+AD7AP5BAYEEwQgBC0EOwRIBFUEYwRxBH4EjASaBKgEtgTEBNME4QTwBP4FDQUcBSsFOgVJBVgFZwV3BYYFlgWmBbUFxQXVBeUF9gYGBhYGJwY3BkgGWQZqBnsGjAadBq8GwAbRBuMG9QcHBxkHKwc9B08HYQd0B4YHmQesB78H0gflB/gICwgfCDIIRghaCG4IggiWCKoIvgjSCOcI+wkQCSUJOglPCWQJeQmPCaQJugnPCeUJ+woRCicKPQpUCmoKgQqYCq4KxQrcCvMLCwsiCzkLUQtpC4ALmAuwC8gL4Qv5DBIMKgxDDFwMdQyODKcMwAzZDPMNDQ0mDUANWg10DY4NqQ3DDd4N+A4TDi4OSQ5kDn8Omw62DtIO7g8JDyUPQQ9eD3oPlg+zD88P7BAJECYQQxBhEH4QmxC5ENcQ9RETETERTxFtEYwRqhHJEegSBxImEkUSZBKEEqMSwxLjEwMTIxNDE2MTgxOkE8UT5RQGFCcUSRRqFIsUrRTOFPAVEhU0FVYVeBWbFb0V4BYDFiYWSRZsFo8WshbWFvoXHRdBF2UXiReuF9IX9xgbGEAYZRiKGK8Y1Rj6GSAZRRlrGZEZtxndGgQaKhpRGncanhrFGuwbFBs7G2MbihuyG9ocAhwqHFIcexyjHMwc9R0eHUcdcB2ZHcMd7B4WHkAeah6UHr4e6R8THz4faR+UH78f6iAVIEEgbCCYIMQg8CEcIUghdSGhIc4h+yInIlUigiKvIt0jCiM4I2YjlCPCI/AkHyRNJHwkqyTaJQklOCVoJZclxyX3JicmVyaHJrcm6CcYJ0kneierJ9woDSg/KHEooijUKQYpOClrKZ0p0CoCKjUqaCqbKs8rAis2K2krnSvRLAUsOSxuLKIs1y0MLUEtdi2rLeEuFi5MLoIuty7uLyQvWi+RL8cv/jA1MGwwpDDbMRIxSjGCMbox8jIqMmMymzLUMw0zRjN/M7gz8TQrNGU0njTYNRM1TTWHNcI1/TY3NnI2rjbpNyQ3YDecN9c4FDhQOIw4yDkFOUI5fzm8Ofk6Njp0OrI67zstO2s7qjvoPCc8ZTykPOM9Ij1hPaE94D4gPmA+oD7gPyE/YT+iP+JAI0BkQKZA50EpQWpBrEHuQjBCckK1QvdDOkN9Q8BEA0RHRIpEzkUSRVVFmkXeRiJGZ0arRvBHNUd7R8BIBUhLSJFI10kdSWNJqUnwSjdKfUrESwxLU0uaS+JMKkxyTLpNAk1KTZNN3E4lTm5Ot08AT0lPk0/dUCdQcVC7UQZRUFGbUeZSMVJ8UsdTE1NfU6pT9lRCVI9U21UoVXVVwlYPVlxWqVb3V0RXklfgWC9YfVjLWRpZaVm4WgdaVlqmWvVbRVuVW+VcNVyGXNZdJ114XcleGl5sXr1fD19hX7NgBWBXYKpg/GFPYaJh9WJJYpxi8GNDY5dj62RAZJRk6WU9ZZJl52Y9ZpJm6Gc9Z5Nn6Wg/aJZo7GlDaZpp8WpIap9q92tPa6dr/2xXbK9tCG1gbbluEm5rbsRvHm94b9FwK3CGcOBxOnGVcfByS3KmcwFzXXO4dBR0cHTMdSh1hXXhdj52m3b4d1Z3s3gReG54zHkqeYl553pGeqV7BHtje8J8IXyBfOF9QX2hfgF+Yn7CfyN/hH/lgEeAqIEKgWuBzYIwgpKC9INXg7qEHYSAhOOFR4Wrhg6GcobXhzuHn4gEiGmIzokziZmJ/opkisqLMIuWi/yMY4zKjTGNmI3/jmaOzo82j56QBpBukNaRP5GokhGSepLjk02TtpQglIqU9JVflcmWNJaflwqXdZfgmEyYuJkkmZCZ/JpomtWbQpuvnByciZz3nWSd0p5Anq6fHZ+Ln/qgaaDYoUehtqImopajBqN2o+akVqTHpTilqaYapoum/adup+CoUqjEqTepqaocqo+rAqt1q+msXKzQrUStuK4trqGvFq+LsACwdbDqsWCx1rJLssKzOLOutCW0nLUTtYq2AbZ5tvC3aLfguFm40blKucK6O7q1uy67p7whvJu9Fb2Pvgq+hL7/v3q/9cBwwOzBZ8Hjwl/C28NYw9TEUcTOxUvFyMZGxsPHQce/yD3IvMk6ybnKOMq3yzbLtsw1zLXNNc21zjbOts83z7jQOdC60TzRvtI/0sHTRNPG1EnUy9VO1dHWVdbY11zX4Nhk2OjZbNnx2nba+9uA3AXcit0Q3ZbeHN6i3ynfr+A24L3hROHM4lPi2+Nj4+vkc+T85YTmDeaW5x/nqegy6LzpRunQ6lvq5etw6/vshu0R7ZzuKO6070DvzPBY8OXxcvH/8ozzGfOn9DT0wvVQ9d72bfb794r4Gfio+Tj5x/pX+uf7d/wH/Jj9Kf26/kv+3P9t//9wYXJhAAAAAAADAAAAAmZmAADypwAADVkAABPQAAAKW3ZjZ3QAAAAAAAAAAQABAAAAAAAAAAEAAAABAAAAAAAAAAEAAAABAAAAAAAAAAEAAG5kaW4AAAAAAAAANgAAp0AAAFWAAABMwAAAnsAAACWAAAAMwAAAUAAAAFRAAAIzMwACMzMAAjMzAAAAAAAAAABzZjMyAAAAAAABDHIAAAX4///zHQAAB7oAAP1y///7nf///aQAAAPZAADAcW1tb2QAAAAAAAAGEAAAoC4AAAAA0OXmeAAAAAAAAAAAAAAAAAAAAAA=)

그림1. 삼변측량 알고리즘의 계산

비콘은 방향 값을 갖지 않고, 스칼라 값만 갖기 때문에 좌표 계산을 위해 최소 3개의 비콘이 필요하다. 삼변측량 알고리즘을 이용해 좌표를 계산한다. 삼변측량은 삼각측량과 마찬가지로 삼각형 기하학을 사용하여 물체의 상대 위치를 구하는 방법이다. 하나의 변의 길이와 양 끝의 두 각을 이용하는 삼각측량과는 달리 삼변측량은 목표의 위치를 알기 위해서 두 개 이상의 기준점과, 물체와 각 기준점과의 거리를 이용한다. 삼변측량만으로 2차원 면에서의 상대위치를 정확하고 유일하게 결정하기 위해서는 최소한 3개의 기준점이 필요하다.

a. 삼변측량을 위한 이차방정식의 해를 구하는 함수를 작성한다.

삼변측량을 통해 좌표를 구하기 위해 이차방정식의 해를 구하는 함수를 작성한다. 이차방정식의 계수와 이전 해를 입력받는다. 판별식(D)이 0보다 크거나 같으면 해를 계산하고, 0보다 작으면 이전 해를 반환한다.

def solEqP(a, b, c, beforeN):

D=b\*b-4\*a\*c

if D>=0:

return (-b+D\*\*0.5)/2\*a

else:

return beforeN

def solEqM(a, b, c, beforeN):

D=b\*b-4\*a\*c

if D>=0:

return (-b-D\*\*0.5)/2\*a

else:

return before

b. 삼변측량 구현

비콘과의 거리 3개를 이용하여 캣타워와 고양이의 좌표를 구하는 삼변측량 함수를 구현한다.

캣타워, 고양이와 비콘 3개와의 거리(r1, r2, r3)와 비콘간의 거리(d1, d2, d3), 이전 좌표(beforex, beforey)를 인수로 받는다.

r1, r2, r3 세 값이 모두 수치적으로 가능한 범위의 값인 경우, 비콘 3개를 중심으로 r1, r2, r3를 반지름으로 하는 원을 그리고, 세 개의 원이 만나는 곳의 좌표를 구하고 그 값을 반환한다.

r1, r2, r3 중 하나의 값만 비정상적이라면 비정상적인 값 하나를 빼고 나머지 2개의 값을 반지름으로 하는 원 2개를 그려 두 원의 교점을 찾는다. 2개의 교점이 나오는데, 만약 비정상적인 값이 정상적인 범위보다 큰 경우면 좌표값이 더 큰 교점을 고르고, 비정상적인 값이 정상적인 범위보다 작은 경우면 좌표값이 더 작은 교점을 고르고 그 값을 반환한다.

r1, r2, r3 중 비정상적인 값이 2개 이상이면 이전 좌표를 반환한다.

def tri\_survey(r1, r2, r3, d1, d2, d3, beforex, beforey):

#r1, r2, r3가 비정상적인 값이면 이전 좌표 반환

if r1>1.2 or r2>0.9 or r3>1.5:

return beforex, beforey

#r1, r2, r3가 정상적인 값이면 삼각측량법으로 계산

if r1+r2>d1 and r1+r3>d2 and r2+r3>d3:

if r3<max(d3+r2, d2+r1) and r2<max(d3+r3, d1+r1) and r1<max(d1+r2, d2+r3):

x=(pow(r1,2)-pow(r2,2)+pow(d1,2))/(2\*d1)

y=(pow(r1,2)-pow(r3,2)+pow(d2,2))/(2\*d2)

#하나만 비정상적인 경우 두 교점 중 하나를 선택

elif r3<max(d3+r2, d2+r1) and r2<max(d3+r3, d1+r1) and r1>max(d1+r2, d2+r3):

A=(r3\*\*2-r3\*\*2-d1\*\*2-d2\*\*2)/2\*d2

x=solEqP(1+d1\*\*2/d2\*\*2, 2\*d1\*A/d2, A\*\*2-r3\*\*2, beforex)

B=(r2\*\*2-r3\*\*2-d1\*\*2-d2\*\*2)/2\*d1

y=solEqP(1+d2\*\*2/d1\*\*2, 2\*d2\*B/d1, B\*\*2-r2\*\*2, beforey)

지도, 실외, 텍스트, 하늘이(가) 표시된 사진

자동 생성된 설명

그림 2. 칼만필터 적용 예시

비콘의 rssi 값의 오차를 보정하기 위해 칼만 필터를 사용하여 정확도를 높인다.

노이즈가 많은 비콘값의 정확도를 높이기 위해 최근 20개 값의 평균값을 이용하는 방법도 추가적으로 사용한다.

rssiC1=kalmanTest1.filter(rssi)

ratio1=rssiC1\*1.0/txpower

if ratio1>1.0:

r1=math.pow(ratio1, 10)

else:

temp=ratio1\*\*(7.7095)

temp=temp\*0.89976

r1=temp+0.111

sumval1 = sumval1 + r1

cnt1 = cnt1 + 1

(중략)

if cnt1==20:

cnt1=0

truval1=sumval1/20

sumval1=0

truval1: 보정된 비콘 거리값

3-2 비콘 값을 통한 위치 좌표 계산

공간을 영역으로 나누어 2차원 좌표계로 만든다. 비컨을 통해 위치 좌표를 계산하고 그것을 이용해 캣타워가 고양이를 향해 주행한다.

고양이와 캣타워는 각자의 비콘스캐너를 통해 비콘의 rssi신호값을 받아 자신의 위치좌표를 계산하여 mqtt를 통해 json형식으로 캣타워에게 전송한다. 캣타워는 받은 두 좌표값을 파싱하여 캣타워와 고양이사이의 거리를 계산하여 주행한다.

3-2. 카메라 스트리밍 서버 구축

파이카메라 영상을 스트리밍할 서버를 flask를 통해 구축한다.

templates디렉토리 하위에 있는 index.html 파일을 렌더링한 후 url동적 생성을 이용해 파이카메라의 프레임을 html파일 내 이미지 태그 src로 response한다.

카메라 프레임의 해상도는 300\* 600으로 맞춘다. capture\_couninuous 메소드를 이용해 카메라 화면을 캡쳐한 후 jpeg로 인코딩하여 스트림을 전송한다.

3-3. 안드로이드 어플리케이션 개발

안드로이드 어플리케이션과 라즈베리파이가 소켓 통신을 통해 데이터를 주고 받도록 개발한다. 메인화면의 버튼을 클릭하면 클릭된 버튼에 대한 정보를 라즈베리파이로 송신한다.

Find 버튼을 클릭하면 반려동물을 찾아 주행하면서 카메라 스트리밍 영상을 송출한다.

3-4. 라즈베리파이 rc카 구동

a. 주행에 필요한 초음파 센서 거리를 계산 한다.

초음파 전송이 끝나는 전송 시간과 초음파 수신이 완료될 때까지 수신 시간을 저장하여 두 값의 차이를 총 도달시간을 산정한다. 음파의 초당 이동속도(340m)를 이용하여 거리를 계산한다.

def check\_Ultrasonic() :

gpio.output(TRIG, gpio.HIGH)

time.sleep(0.00001)

gpio.output(TRIG, gpio.LOW)

while gpio.input(ECHO)==gpio.LOW :

start = time.time()

while gpio.input(ECHO)==gpio.HIGH :

stop = time.time()

duration = stop - start

ultradis = (duration\*340\*100)/2

return ultradis

b. 주행을 위해 필요한 변수 선언

global 변수와 지역변수를 선언한다.

- rc카 서보 모터의 바퀴를 위한 변수

-고양이와 캣타워 사이의 현재거리와 이전거리

-초음파센서 거리를 위한 변수

-고양이와 캣타워의 좌표값을 저장하기 위한 변수

-방에서 나감과 회전을 표시하기 위한 flag변수

C. 주행

- 초음파센서와 앞의 장애물의 거리가 5cm이하이면 후진한 후 계속 주행한다.

- 방에서 아직 나가지 못한 상태(out=0)에서 캣타워의 y좌표가 1이 될 때 까지 직진한 후, out의 값은 1로 바꿔준다. 캣타워가 복도에 있는 상태이면 오른쪽으로 90도 회전한다.

- 회전 후, 직진하며 캣타워와 고양이 사이의 거리를 비교한다. 거리가 멀어지면 180도 회전한 후, 다시 직진하며 거리를 확인한다. 거리가 가까워지면, 알맞은 방향으로 가고 있음을 의미하므로 계속 직진한다.

- 캣타워와 고양이의 x좌표가 같아지는 순간이 오면 오른쪽으로 90도 회전한다.

- 회전한 후, 다시 직진하며 캣타워와 고양이사이의 거리를 비교한다. 멀어지는 경우, 위의 경우와 같이 180도 회전한 후, 직진한다.

- 캣타워와 고양이의 좌표가 일치하는 순간 캣타워가 정지한 후, 주행이 완료된다.

3-5. 어플리케이션과의 소켓 통신

a. 소캣통신을 위한 변수 선언 및 소켓 할당

HOST = ""

PORT = 3000

s = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

b. 소캣 통신을 위한 소켓함수

def sock():

global data

while True:

conn, addr = s.accept()

res = conn.recv(1024)

res = res.decode("utf8").strip()

if not res: break

conn.sendall(res.encode("utf-8"))

data = res

conn.close()

3-6 고양이와 캣타워 사이의 mqtt 통신

a. mqtt 통신을 위한 브로커 설치 : mosquito

b. 연결 설정

def on\_connect(client, userdata, flags, rc):

print("Connected with result code " + str(rc))

client.subscribe("towerInfo")

c. 메세지 수신을 위한 수신부

def mqtt\_sub():

client = mqtt.Client()

client.on\_connect = on\_connect

client.on\_message = on\_message

client.connect("192.168.1.3",1883,60) #cat ip

client.loop\_forever()

d. 수신한 json메세지를 파싱하여 변수에 저장

recvData=str(msg.payload)

jsonData=json.loads(recvData)

dis = float(str(jsonData["distance"]))

towerxloc = float(str(jsonData["towerxloc"]))

toweryloc = float(str(jsonData["toweryloc"]))

catxloc = float(str(jsonData["catxloc"]))

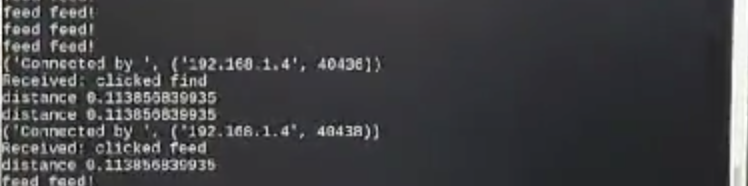
catyloc = float(str(jsonData["catyloc"]))

IV. 실험 및 결과 고찰

4-1 위치 좌표를 통한 거리 계산

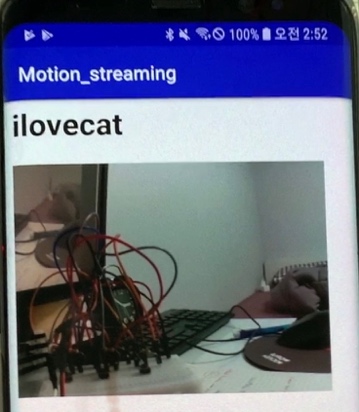
텍스트이(가) 표시된 사진

자동 생성된 설명



* 비콘의 rssi 값의 오차를 보정하기 위해 칼만 필터를 사용해서 보정
* 추가적으로 더 정확한 보정을 위해 20개의 값을 받아 평균값을 사용하여 보정

4-2 파이 카메라를 통한 영상 송출

****

* Flask를 이용해 영상을 스트리밍할 서버를 구축한다.
* picamera 라이브러리 모듈을 통해 파이카메라를 제어한다.
* rotation 메서드를 이용해 화면을 180도 로테이션 시켜준다.
* resolution 메서드를 이용해 해상도를 설정한다.
* 파이카메라의 프레임을 연속해서 웹페이지에 보내 스트리밍한다.
* 안드로이드 어플리케이션에서 웹 뷰를 띄워 영상을 스트리밍한다.

4-3 주행

건물, 벽, 실내이(가) 표시된 사진

자동 생성된 설명

[그림] 주행하는 모습

V. 결론

본 연구의 핵심인 비컨을 활용한 실내 측위와 파이카메라 스트리밍 및 영상 송출을 구현함에 있어 성과를 거두었지만 비컨의 정확도가 예상보다 낮아 실세계에 바로 적용하기에는 비컨값 보정에 대한 연구가 필요하다.

추후 연구과제로 비컨의 rssi 신호값을 보정하기 위한 연구와 캣타워의 기능을 추가적으로 구현하여야 한다.

VI. 감사의 글

종합설계 프로젝트를 잘 마무리 할 수 있도록 열정적으로 지도해주신 이인복 교수님께 깊은 감사의 말씀을 드립니다.

참 고 문 헌

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이름 장우진 1997년 1월 6일생

2015년 2월 : 한국항공대학교

소프트웨어학과 (공학사)

관심 분야 : 임베디드 sw

특 기 : 임베디드 sw 개발

이름 김유진 1996년 11월 18일생

2018년3월 : 한국항공대학교

소프트웨어학과 (공학사)

관심 분야 : S/W 설계

특 기 : 웹/앱 서버 개발

이름 장준혁 1994년 7월 25일생

2013년 3월 : 한국항공대학교

소프트웨어학과 (공학사)

관심 분야 : 데이터베이스

특 기 : 데이터베이스 설계