**DEVELOPMENT OF THE GEOGRAPHICAL**

**INFORMATION SYSTEM OF**

**THE PHILIPPINES**

A Project Presented to

The Undergraduate Program

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**ABSTRACT**

The purpose of this study is to develop an improved Philippine Geographic Information System (GIS) to address the limitations of existing systems. The current Geographic Information System (GIS) in the Philippines faces several challenges, such as: limited access to organized and latest geographic data, complex user interfaces that hinders ease of use, and a lack of public awareness about Geographic Information System (GIS) and its potential benefits. To address these problems, this study will develop an offline C++ based Geographic Information System (GIS) that provides access to the latest geographic data, including information on regions, cities, municipalities, barangays, population, area, and mayors of each city in the Philippines. The system will feature a user-friendly interface designed for individuals without technical expertise. Additionally, the research will develop outreach materials and resources to promote Geographic Information System (GIS) awareness and its applications across various sectors, such as local development and planning, geology, agriculture, business, archaeology, health, military, and the management of natural resources and risks. By developing this improved Geographic Information System (GIS), this research seeks to empower individuals and organizations to utilize geographic information effectively, leading to better decision making, informed planning, and sustainable development in the Philippines.

**ACKNOWLEDGEMENTS**

We would like to express our heartfelt gratitude to everyone who played a role in the successful completion of this research. Your support, guidance, and contributions have been invaluable throughout this journey.

First and foremost, we extend our deepest thanks to our professor, Marilou B. Mangrobang, for her unwavering guidance, constructive feedback, and encouragement. Her expertise and mentorship have been instrumental in shaping this research project and helping us overcome challenges along the way. We are immensely grateful for her time, patience, and insights, which have greatly enriched our work.

We would also like to recognize the members of our research group for their remarkable dedication, collaboration, and teamwork. Each member has brought unique strengths and perspectives, which have been essential to the success of this project. Your commitment to this shared goal and your willingness to learn, adapt, and contribute have been truly inspiring.

Additionally, we extend our gratitude to our families and friends for their support and understanding throughout this process. Their encouragement and belief in our abilities have motivated us to persevere and give our best.

Lastly, we thank everyone who has provided resources, ideas, or moral support to help us reach this milestone. Your contributions, big or small, have played an important role in the completion of this research.

To all, thank you for being part of this journey and for helping us achieve our goals.

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**Chapter One**

**INTRODUCTION**

**Background of the Study**

Geographic Information Systems (GIS) originated in the 1960s, when it was discovered that maps could be made using basic code and stored on computers for later update. GIS has evolved over time into an important technology framework for recording, storing, verifying, and displaying spatial data. According to a National Geographic Society article published on November 14, 2024, GIS is a computer system that collects and visualizes information about locations on Earth's surface. Similarly, the White House defines geographic data infrastructure as "the technology, policies, and standards required to acquire, process, distribute, use, maintain, and preserve spatial data." GIS is a critical component of this infrastructure because it uses location-based data to support a wide range of applications across industries and areas.

GIS technology relies on various forms of geographic identifiers, such as ZIP codes, addresses, and latitude-longitude coordinates, to organize and analyze spatial data. Its applications span numerous fields, including geology, agriculture, business, urban planning, archaeology, health, military operations, and natural resource management. Recent studies highlight the increasing efficiency of GIS and remote sensing as powerful tools for monitoring land-use and land-cover changes. For instance, Rane et. al. (2023) emphasizes GIS’s potential to enhance accuracy in assessing land-use transformations. Additionally, GIS integrates data, coordinates it, and performs validation checks to generate outputs that inform decision-making. It can also identify spatial patterns, trends, and models relevant to sectors like health, producing map displays and valuable insights (Taki and Chaniago, August 2022).

Land change research, which gained momentum in the 1990s, continues to play a vital role in understanding global sustainability and environmental transformations. Changes in land use and land cover, such as the conversion of farmland and forests into urban areas, represent some of the most significant environmental shifts today. Monitoring these changes is essential for urban planning and resource management, and GIS provides a practical foundation for tracking land use dynamics. Technological advancements in remote sensing and geospatial tools have made it possible to observe these transformations with greater precision, offering critical insights for urban and environmental planning (Saing et. al., 2021; Devianti et. al., 2021; Yu et al., 2020).

In rural areas, the shift toward urbanization underscores the growing importance of GIS for sustainable land use. GIS, combined with mapping techniques, plays a significant role in addressing regional emergencies and supporting urban management. Countries such as the United States, Europe, and Indonesia have successfully implemented GIS-based solutions for urban pipeline network management, including systems for water supply, sewage, land-use balancing, and sediment prediction (Muhammad Muslih et. al., June 2022).

In the Philippines, GIS holds considerable potential for local applications. For example, in Cabanatuan City, GIS could support the analysis of socioeconomic and demographic data. The city reported an 89.20% employment rate in 2015, with 68,247 dwellings and crude birth and death rates of 22.09 and 5.17 per 1,000 people, respectively (Pula and Esquivel, 2020). Such data can be incorporated into GIS systems to facilitate urban planning, resource allocation, and policy development.

**Statement of the Problem**

This study aims to develop an improved Geographic Information System (GIS) for the Philippines.

Specifically, the researchers will seek to answer the following statements:

1.        Limited access to organized Geographic Information Systems (GIS) that focus solely on the latest geographic data in the Philippines makes it challenging for local agencies, researchers, and students to retrieve relevant and up-to-date information.

2.        The complexity of existing Geographic Information System (GIS) systems makes it difficult for individuals without technical expertise to navigate and utilize geographic data effectively and efficiently.

3.        A lack of awareness about how Geographic Information System (GIS) technology can benefit daily lives and communities leads to the underutilization of available data and resources.

**Objectives of the Study**

1.        To develop an offline C++ language-based Geographic Information System (GIS) for the Philippines that focuses on providing offline access and management of the latest geographic data while minimizing reliance on outdated information.

2.        To design a basic user interface that simplifies the use of the Geographic Information System (GIS) for individuals with no or minimal technical background.

3.        To raise public awareness of Geographic Information System (GIS) technology and its community benefits by developing outreach materials and resources that highlight its applications across various fields, including local development and planning, geology, agriculture, business, archaeology, health, the military, and the management of natural resources and risks.

**Significance of the Study**

This study aims to provide valuable insights into the development and Improvement of the Geographic Information System (GIS) for the Philippines. The following groups stand to benefit from this research:

**The students**, this study seeks to deepen students' understanding of how the development and improvement of Geographic Information System (GIS) in the Philippines impact various fields such as local development and planning, geology, agriculture, business, archaeology, health, the military, and the management of natural resources and risks. By gaining these insights, students can effectively utilize the data and resources provided by Geographic Information System (GIS) for academic and practical purposes.

**Local governments and authorities**, this study can benefit from the practical applications of Geographic Information System (GIS) in addressing issues in sectors like health, urban planning, agriculture, and natural resource management. By integrating Geographic Information System (GIS) into their operations, these stakeholders can achieve more productive outcomes and reduce potential risks.

**Teachers**, this research can assist teachers by offering information on the present status of Geographic Information System (GIS) advancement and its possible uses in the Philippines. With this expertise, they can develop educational plans and exercises that emphasize the real-world applications of Geographic Information System (GIS) in different areas like urban planning, environmental management, and public health. Moreover, teachers can promote interdisciplinary studies and teamwork by showing how Geographic Information System (GIS) combines technology, data analysis, and decision-making. Teachers can assist students in developing their understanding and ability in Geographic Information System (GIS), preparing them with capabilities that are in high demand in current industries and societal issues.

**Future researchers**, this research serves as a valuable reference for future studies focused on the development of an improved Geographic Information System (GIS) in the Philippines. It lays the groundwork for further investigations, innovations, and improvements, potentially leading to a more effective and efficient Geographic Information System (GIS) in the Philippines.

**Scope and Delimitations**

The objective of this research is to develop and improve a Geographic Information System (GIS) for the Philippines. The C++ language will be utilized to program the system, guaranteeing both high performance and flexibility. The Geographic Information System (GIS) will contain thorough information about the Philippines' regions, cities, municipalities, and barangays, including data on the population in 2020, land area, and the names of city mayors. This study focuses on maintaining accurate and up-to-date data while prioritizing ease of use and efficient functionality. Designed to function offline, the system will enable access to data even in areas with limited internet connectivity and support simplified storage and retrieval processes. The target users include local government units for planning and administration, researchers and students for academic purposes, and community organizations for resource planning and awareness programs. Applications of the system extend to urban and municipal planning, resource allocation for infrastructure projects, and policy development based on geographic data. Additionally, the design is adjustable, allowing for future enhancements and the integration of new datasets as geographic information needs evolve.

Nevertheless, historical data such as previous population figures, population density trends, and records of past mayors will not be included. The system will focus solely on the most up-to-date data to simplify its design and ensure clarity. Additionally, the Geographic Information System (GIS) will exclusively cover data from the Philippines, excluding any international or global geographical information. The system will not include images of cities, municipalities, or barangays, relying solely on textual information. Furthermore, this research does not consider other potential factors, such as socioeconomic or environmental data, that could impact the improvement and development of the Geographic Information System (GIS).

**Operational Definition of Terms**

**Geographic Information System (GIS)** refers to a computer-based tool used for capturing, storing, analyzing, and displaying spatial and geographic data. In this study, GIS refers to the developed system designed to map and provide data about different regions in the Philippines.

**Hardcoded Data** refers to the information manually embedded into the system’s source code. In this study, hardcoded data refers to pre-programmed regional data, including population, geographic features, and administrative details, that the GIS system processes and displays.

**Regions** refers to specific administrative divisions in the Philippines, as defined by the national government. This study focuses on mapping data for each region to provide relevant socio-economic and geographic information.

**C++ Programming Language** refers to a high-level programming language used to build the GIS framework. In this study, C++ is employed to create the functionality of the system, including input processing and data retrieval.

**System Validation** refers to the process of checking the accuracy and correctness of user inputs and their corresponding outputs. In this study, system validation ensures that the GIS provides accurate regional data based on user selections.

**User Input** refers to the data entered by users into the system to retrieve information. For this study, user input involves selecting a region through a dropdown menu or entering a corresponding numerical value.

**Output** refers to the information displayed by the GIS after processing user input. In this study, output includes details about regions, such as population, area, and leadership data.

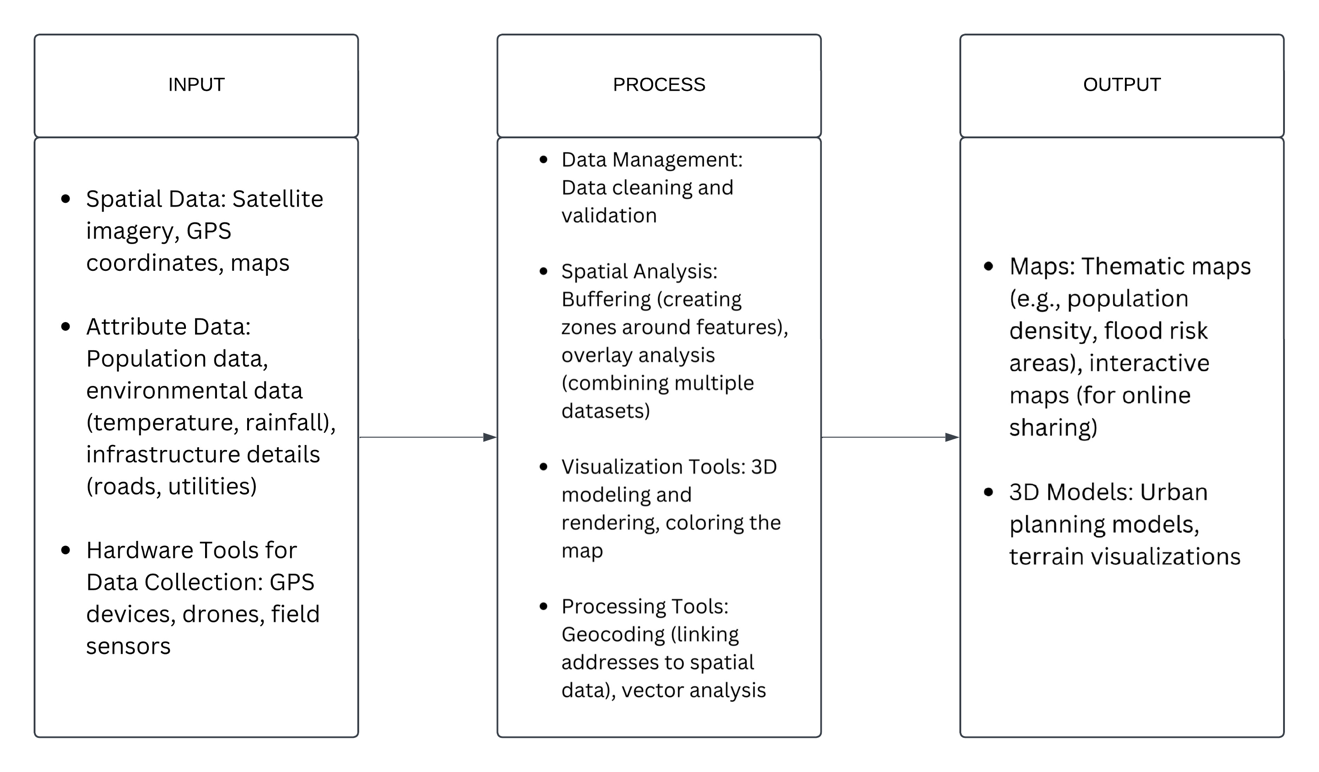
**Chapter Two**

**CONCEPTUAL FRAMEWORK**

**Framework of the Existing System**

A Geographic Information System (GIS) is a comprehensive framework for collecting, analyzing, and visualizing spatial and geographic data, widely used in fields such as urban planning, environmental management, and disaster mitigation.

At its core, GIS follows the Input-Process-Output (IPO) model to transform raw data into actionable insights. The input stage involves collecting spatial data (e.g., satellite imagery, GPS coordinates) and attribute data (e.g., population statistics, infrastructure details) using tools like GPS devices and drones. During the process stage, the data is cleaned, managed, and analyzed using techniques like buffering, overlay analysis, and geocoding, with outputs enhanced by visualization tools like thematic maps and 3D models. Finally, the output stage delivers results as maps, interactive visuals, or models that provide insights for decision-making and problem-solving. By utilizing the IPO model, GIS offers a structured approach to interpreting complex spatial data and addressing real-world challenges effectively.

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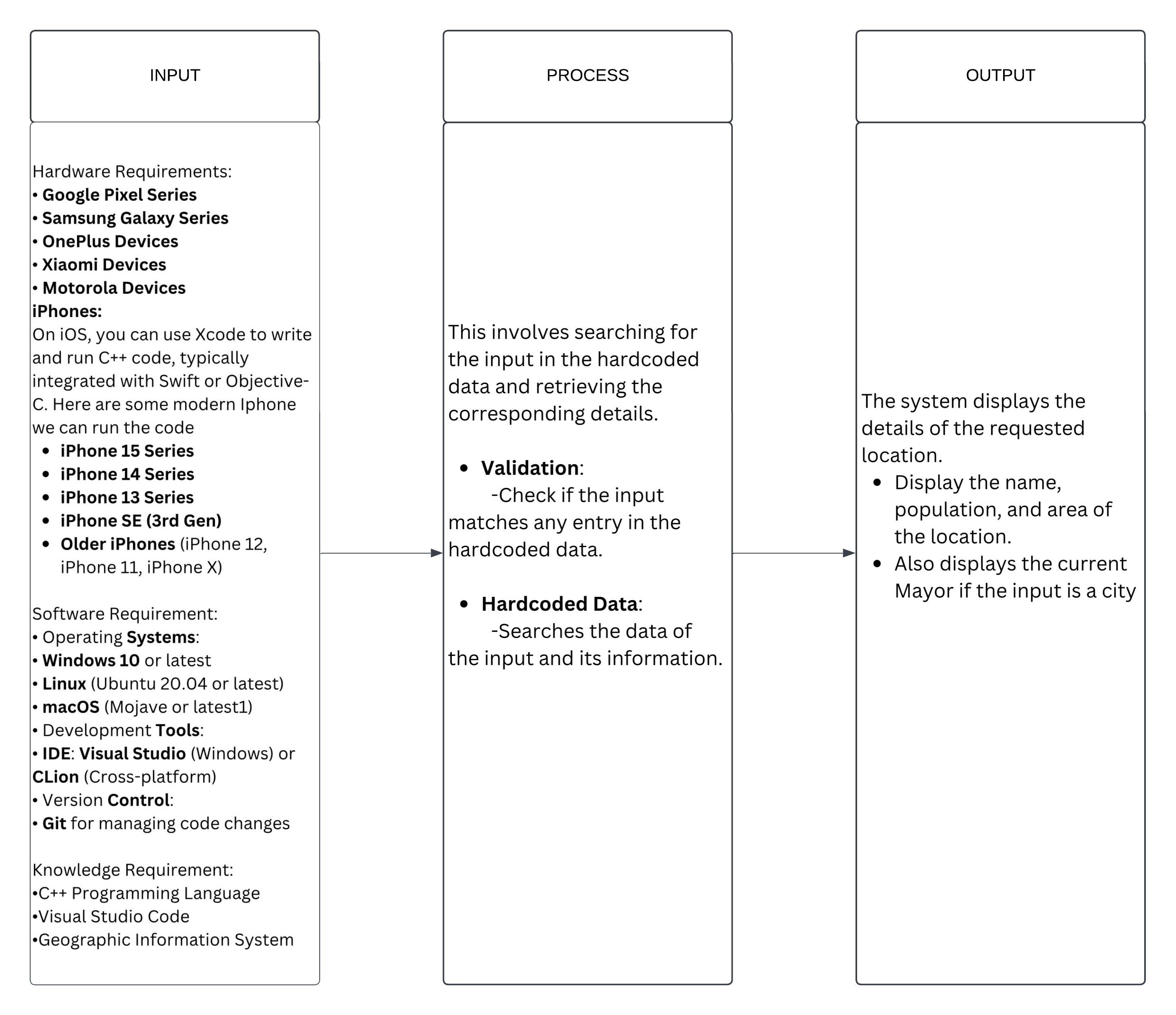
**Framework of the Proposed System**

The proposed Geographic Information System (GIS) framework uses a simplified Input-Process-Output (IPO) model implemented in C++, with hardcoded data as its primary source of information. This framework allows users to retrieve specific regional information by interacting with a menu-driven system.

In the input stage, users are presented with a dropdown menu of regions, each associated with a unique integer. The user selects a region by entering its corresponding number using standard input (cin). For example, entering "1" correspond to "Region I - Ilocos Region," while "2" corresponds to "Region II - Cagayan Valley." This user-friendly interface ensures that inputs are straightforward and directly tied to pre-defined regions.

During the process stage, the system searches for the user’s input within the hardcoded data to validate and retrieve the corresponding information. First, the input is checked against available entries to ensure it matches a valid region. Once validated, the system accesses the hardcoded database to extract relevant details. The hardcoded approach simplifies data retrieval and eliminates the need for external data storage or updates, making the system efficient but static in terms of content flexibility.

Finally, in the output stage, the system displays the details of the selected region. These details include the name, population, and area of the region. If the selected input corresponds to a city, additional information, such as the name of the current mayor, is displayed. By providing clear and concise outputs, the system ensures users can quickly access the desired information.

****This GIS framework shows how a basic IPO model can be implemented using C++, relying on hardcoded data to deliver functionality. While it is a simplified system, it is effective for scenarios requiring static data with minimal computational overhead and serves as a foundational example for GIS applications in C++.

**Review of Related Literature and Studies**

Geographic Information Systems (GIS) have improved how we collect, store, analyze, and display spatial data. This modern technology has found applications in a wide range of sectors, including urban planning, disaster management, public health, and environmental conservation. This literature review seeks to provide a complete overview of GIS applications, current breakthroughs, and their far-reaching effects across multiple areas.

The integration of GIS with Building Information Modeling (BIM) has opened new frontiers in construction project management. Alsaggaf and Jrade (2021) conducted an in-depth study on this integration, proposing a framework for effective construction project control. Their research highlighted several key benefits, including enhanced decision-making processes through spatial analysis of project data, improved project visualization allowing for better planning and resource allocation, real-time monitoring of construction progress and potential issues, and reduction in project delays and cost overruns through proactive management. The authors emphasized that GIS-BIM integration allows for a more holistic approach to project management, considering both spatial and temporal aspects of construction projects. This integration is particularly valuable in large-scale infrastructure projects where spatial context plays a crucial role in project success.

Kucera (2022) introduced the concept of Time-Geographic Information Systems (T-GIS), representing a significant advancement in GIS technology. T-GIS incorporates temporal dimensions into traditional GIS, allowing for more sophisticated analysis of spatiotemporal phenomena. Key aspects of T-GIS include analysis of human mobility patterns over time, tracking environmental changes and their progression, modeling of dynamic urban systems and transportation networks, and improved forecasting capabilities for urban planning and policymaking. T-GIS offers new possibilities for understanding complex spatiotemporal relationships, making it particularly valuable in fields such as urban planning, transportation management, and ecological studies. Kucera’s work demonstrates how T-GIS can provide insights into human-environment interactions that were previously difficult to capture with traditional GIS methods.

Longley et. al. (2022) provided a comprehensive overview of GIS applications across multiple disciplines. Their work serves as a cornerstone in understanding the breadth and depth of GIS capabilities. Key areas of application include urban planning, where GIS aids in land use analysis, zoning, and infrastructure planning; environmental management, supporting ecosystem analysis, conservation planning, and climate change studies; public health, enabling spatial analysis of disease spread, healthcare accessibility, and environmental health factors; and business analytics, facilitating location-based market analysis, supply chain optimization, and customer behavior mapping. The authors also discussed the evolution of GIS technologies, highlighting the integration with big data analytics, cloud computing, and artificial intelligence. This integration has significantly expanded the capabilities of GIS, making it an indispensable tool in data-driven decision-making across various sectors.

Falconer et. al. (2019) examined the crucial role of GIS in sustainable aquaculture development. Their research demonstrated how GIS tools contribute to site selection, environmental impact assessment, production optimization, and sustainable management. The authors emphasized that GIS is instrumental in addressing the challenges of increasing aquaculture production while minimizing environmental impacts. By providing a spatial context to aquaculture management, GIS enables more informed decision-making and sustainable practices in this rapidly growing industry.

Tomaszewski (2020) focused on the critical role of GIS in disaster management, exploring its applications throughout the disaster management cycle. Key areas include risk assessment, emergency response planning, real-time disaster monitoring, and post-disaster recovery. The author presented case studies where GIS played a crucial role in mitigating the impacts of natural disasters and improving community resilience. Tomaszewski’s work underscores the importance of GIS in creating more resilient communities and efficient disaster response systems.

The World Health Organization (WHO) has recognized the significance of GIS in public health management. The WHO GIS Centre for Health supports the use of geospatial technologies for health planning, disease surveillance, health service accessibility analysis, and environmental health studies. This institutional adoption highlights the growing importance of GIS in global health initiatives, demonstrating its potential to improve health outcomes on a global scale.

Pornasdoro (2021) examined the use of GIS for disease tracking in the Philippines, demonstrating how GIS tools have been employed to map disease outbreaks across the country, identify high-risk areas for targeted interventions, guide public health interventions and resource allocation, and monitor the effectiveness of health programs over time. This research underscores the potential of GIS in improving health outcomes in developing countries, where resources are often limited, and efficient allocation is crucial.

Bersales et. al. (2021) explored broader applications of GIS in the Philippines, including urban planning, environmental management, and disaster risk reduction. Their work highlighted both the challenges and opportunities in implementing GIS technologies in a developing country context, emphasizing the need for capacity building and infrastructure development.

The Asian Development Bank (ADB) has emphasized the societal benefits of GIS technologies. Their analysis suggests that GIS can contribute to more inclusive and sustainable development by improving decision-making processes through data-driven insights, enhancing public participation in planning and policymaking, promoting evidence-based policies for better governance, and supporting sustainable resource management and environmental conservation. The ADB’s perspective highlights the potential of GIS to address complex societal challenges and contribute to sustainable development goals.

Goodchild and Li (2021) explored the role of GIS in the era of big data and artificial intelligence. They discussed how the integration of GIS with machine learning algorithms has led to more sophisticated spatial analysis techniques, enabling researchers and practitioners to extract valuable insights from large, complex datasets. The authors highlighted applications in urban planning, where GIS-powered AI models can predict traffic patterns, optimize public transportation routes, and simulate the impacts of proposed urban developments. They also emphasized the potential of GIS in environmental monitoring, where AI-enhanced remote sensing techniques can track deforestation, monitor air quality, and predict natural disasters with unprecedented accuracy.

Coppock and Rhind (2021) provided a historical perspective on the evolution of GIS, tracing its development from early cartographic techniques to modern, cloud-based spatial analytics platforms. Their work emphasized the transformative impact of GIS on various fields, including geography, urban planning, and environmental science. The authors discussed how GIS has not only changed the way we collect and analyze spatial data but has also influenced decision-making processes in both public and private sectors. They argued that GIS has played a crucial role in democratizing spatial information, making complex geographical analyses accessible to a wider range of users and stakeholders.

This comprehensive literature review demonstrates the wide-ranging applications and profound impacts of Geographic Information Systems across various domains. From construction management to public health, from disaster response to aquaculture, GIS technologies have proven to be invaluable tools for spatial analysis and informed decision-making. As GIS continues to evolve, integrating with emerging technologies like artificial intelligence, big data analytics, and the Internet of Things, its potential to address complex societal and environmental challenges is likely to grow exponentially. The ability to analyze and visualize spatial relationships in increasingly sophisticated ways opens up new possibilities for understanding and managing our world.

As we move forward, the development of comprehensive legal frameworks, ethical guidelines, and best practices for GIS use will be essential to harness its full potential while protecting individual rights and societal interests. The integration of GIS with emerging technologies presents both opportunities and challenges that will shape the future of spatial analysis and decision-making.

In conclusion, GIS stands at the forefront of technological innovations that have the power to shape our understanding of the world and inform critical decisions across numerous fields. Its continued development and application hold great promise for addressing some of the most pressing challenges of our time, from climate change to urban development, from public health to disaster management. As GIS technology continues to advance, it will undoubtedly play an increasingly crucial role in shaping our understanding of the world and our ability to make informed decisions about its future.

**Chapter Three**

**TECHNICAL BACKGROUND**

**Hardware Specifications**

Any modern Android phone can support C++ development, especially if you're using Android Studio and the Android NDK. Here are some popular models:

• **Google Pixel Series**

o Google Pixel 8, Pixel 8 Pro, Pixel 7, Pixel 7 Pro

o These devices are running the latest Android versions and support full Android development, including C++ with the NDK.

• **Samsung Galaxy Series**Samsung Galaxy S23, S23+, S23 Ultra

o Galaxy S22, S22+, S22 Ultra

o Samsung Galaxy A54, A34, and others

o High-performance devices with Snapdragon or Exynos processors, which are well-suited for running and testing C++ apps.

• **OnePlus Devices**

o OnePlus 11, OnePlus 10 Pro, OnePlus 9

o Known for fast performance and large memory (RAM), ideal for app testing, including C++ development.

• **Xiaomi Devices**

o Xiaomi 13, 13 Pro, 12, 12 Pro

o Poco F4, Poco X5 Pro

o Xiaomi devices with Snapdragon processors can run​ Android apps written in C++.

• **Motorola Devices**

o Motorola Edge 40, Edge 30 Pro

o Motorola Moto G Power series

o These phones also run Android and can support C++ apps via the NDK.

o **Oppo and Vivo Devices**

o Oppo Find X6 Pro, Oppo Reno 8

o Vivo X90, Vivo V27

o Oppo and Vivo devices running Android can support development with C++ using the NDK.

**iPhones:**

On iOS, you can use Xcode to write and run C++ code, typically integrated with Swift or Objective-C. Here are some modern Iphoe we can run the code

1. **iPhone 15 Series**

o iPhone 15, iPhone 15 Plus, iPhone 15 Pro, iPhone 15 Pro Max

o The latest iPhones with Apple's A17 Pro chip, which offers excellent performance for apps developed using C++.

2. **iPhone 14 Series**

o iPhone 14, iPhone 14 Plus, iPhone 14 Pro, iPhone 14 Pro Max

o With the A15 or A16 Bionic chip, these iPhones can easily run apps developed using C++.

3. **iPhone 13 Series**

o iPhone 13, iPhone 13 Mini, iPhone 13 Pro, iPhone 13 Pro Max

o These phones, with the A15 Bionic chip, are still capable of handling C++-based applications.

4. **iPhone SE (3rd Gen)**

o iPhone SE 2022 (with A15 Bionic chip)

o A budget-friendly iPhone that can still handle C++ development via Xcode.

5. **Older iPhones** (iPhone 12, iPhone 11, iPhone X)

o Older models like iPhone 12 and 11 still support development with C++, although newer models will offer better performance and support for newer features.

**Software Specifications**

• Operating**Systems**:

• **Windows 10** or latest

• **Linux** (Ubuntu 20.04 or latest)

• **macOS** (Mojave or latest1)

• Development**Tools**:

• **IDE**: **Visual Studio** (Windows) or **CLion** (Cross-platform)

• Version**Control**:

• **Git** for managing code changes

**Cost-Benefit Analysis**

* **Software**: The system will be developed using Code::Blocks, a free, open-source IDE for C++ programming. No software purchase is required.
* **Labor Costs**: The primary cost is the time spent by the student developers. It is estimated that the project will take around 300 hours (combined) for coding, testing, and writing the thesis. Since this is a student project, no monetary labor cost is involved.
* **Hardware**: The development will occur on personal computers, and no additional hardware is required for the project.
* **Database Hosting**: online database will not be needed since this system will be available offline. However, if using a local database, there are no hosting costs.
* **Printing of the Paper:**Printing of the paper will cost around 600 pesos or more due to the printing of source code containing 300+ pages.

**Gantt Chart**

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**Flowchart**

**Use Case Diagram**

**LIST OF REFERENCES**

**APPENDICES**

**APPENDIX A**

(anything na may kinalaman sa group teamwork nyo)

**APPENDIX B**

**Source Codes and Output**

#include <iostream>

#include <string>

#include <limits>

using namespace std;

int main () {

string CaloocanBrgys[] = {"Barangay 1", "Barangay 10", "Barangay 100", "Barangay 101", "Barangay 102","Barangay 103", "Barangay 104", "Barangay 105", "Barangay 106", "Barangay 107","Barangay 108", "Barangay 109", "Barangay 110", "Barangay 111", "Barangay 112","Barangay 113", "Barangay 114", "Barangay 115", "Barangay 116", "Barangay 117","Barangay 118", "Barangay 119", "Barangay 12", "Barangay 120", "Barangay 121","Barangay 122", "Barangay 123", "Barangay 124", "Barangay 125", "Barangay 126","Barangay 127", "Barangay 128", "Barangay 129", "Barangay 13", "Barangay 130","Barangay 131", "Barangay 132", "Barangay 133", "Barangay 134", "Barangay 135","Barangay 136", "Barangay 137", "Barangay 138", "Barangay 139", "Barangay 14","Barangay 140", "Barangay 141", "Barangay 142", "Barangay 143", "Barangay 144","Barangay 145", "Barangay 146", "Barangay 147", "Barangay 148", "Barangay 149","Barangay 15", "Barangay 150", "Barangay 151", "Barangay 152", "Barangay 153","Barangay 154", "Barangay 155", "Barangay 156", "Barangay 157", "Barangay 158","Barangay 159", "Barangay 16", "Barangay 161", "Barangay 162", "Barangay 163","Barangay 164", "Barangay 165", "Barangay 166", "Barangay 167", "Barangay 168","Barangay 169", "Barangay 17", "Barangay 170", "Barangay 171", "Barangay 172","Barangay 173", "Barangay 174", "Barangay 175", "Barangay 176", "Barangay 177","Barangay 178", "Barangay 179", "Barangay 18", "Barangay 180", "Barangay 181","Barangay 182", "Barangay 183", "Barangay 184", "Barangay 185", "Barangay 186","Barangay 187", "Barangay 188", "Barangay 19", "Barangay 2", "Barangay 20","Barangay 21", "Barangay 22", "Barangay 23", "Barangay 24", "Barangay 25","Barangay 26", "Barangay 27", "Barangay 28", "Barangay 29", "Barangay 3","Barangay 30", "Barangay 31", "Barangay 32", "Barangay 33", "Barangay 34","Barangay 35", "Barangay 36", "Barangay 37", "Barangay 38", "Barangay 39","Barangay 4", "Barangay 40", "Barangay 41", "Barangay 42", "Barangay 43","Barangay 44", "Barangay 45", "Barangay 46", "Barangay 47", "Barangay 48","Barangay 49", "Barangay 5", "Barangay 50", "Barangay 51", "Barangay 52","Barangay 53", "Barangay 54", "Barangay 55", "Barangay 56", "Barangay 57","Barangay 58", "Barangay 59", "Barangay 6", "Barangay 60", "Barangay 61","Barangay 62", "Barangay 63", "Barangay 64", "Barangay 65", "Barangay 66","Barangay 67", "Barangay 68", "Barangay 69", "Barangay 7", "Barangay 70","Barangay 71", "Barangay 72", "Barangay 73", "Barangay 74", "Barangay 75","Barangay 76", "Barangay 77", "Barangay 78", "Barangay 79", "Barangay 8","Barangay 80", "Barangay 81", "Barangay 82", "Barangay 83", "Barangay 84","Barangay 85", "Barangay 86", "Barangay 87", "Barangay 88", "Barangay 89","Barangay 9", "Barangay 90", "Barangay 91", "Barangay 92", "Barangay 93","Barangay 94", "Barangay 95", "Barangay 96", "Barangay 97", "Barangay 98","Barangay 99","Barangay 11"};

string LaoagBrgys[] = { "Barangay No. 1, San Lorenzo","Barangay No. 10, San Jose","Barangay No. 11, Santa Balbina","Barangay No. 12, San Isidro","Barangay No. 13, Nuestra Senora de Visitacion","Barangay No. 14, Santo Tomas","Barangay No. 15, San Guillermo","Barangay No. 16, San Jacinto","Barangay No. 17, San Francisco","Barangay No. 18, San Quirino","Barangay No. 19, Santa Marcela","Barangay No. 2, Santa Joaquina","Barangay No. 20, San Miguel","Barangay No. 21, San Pedro","Barangay No. 22, San Andres","Barangay No. 23, San Matias","Barangay No. 24, Nuestra Senora de Consolacion","Barangay No. 25, Santa Cayetana","Barangay No. 26, San Marcelino","Barangay No. 27, Nuestra Senora de Soledad","Barangay No. 28, San Bernardo","Barangay No. 29, Santo Tomas","Barangay No. 3, Nuestra Senora del Rosario","Barangay No. 30-A, Suyo","Barangay No. 30-B, Santa Maria","Barangay No. 31, Talingaan","Barangay No. 32-A, La Paz East","Barangay No. 32-B, La Paz West","Barangay No. 32-C La Paz East","Barangay No. 33-A, La Paz Proper","Barangay No. 33-B, La Paz Proper","Barangay No. 34-A, Gabu Norte West","Barangay No. 34-B, Gabu Norte East","Barangay No. 35, Gabu Sur","Barangay No. 36, Araniw","Barangay No. 37, Calayab","Barangay No. 38-A, Mangato East","Barangay No. 38-B, Mangato West","Barangay No. 39, Santa Rosa","Barangay No. 4, San Guillermo","Barangay No. 40, Balatong","Barangay No. 41, Balacad","Barangay No. 42, Apaya","Barangay No. 43, Cavit","Barangay No. 44, Zamboanga","Barangay No. 45, Tangid","Barangay No. 46, Nalbo","Barangay No. 47, Bengcag","Barangay No. 48-A, Cabungaan North","Barangay No. 48-B, Cabungaan South","Barangay No. 49-A, Darayday","Barangay No. 49-B, Raraburan","Barangay No. 5, San Pedro","Barangay No. 50, Buttong","Barangay No. 51-A, Nangalisan East","Barangay No. 51-B, Nangalisan West","Barangay No. 52-A, San Mateo","Barangay No. 52-B, Lataag","Barangay No. 53, Rioeng","Barangay No. 54-A, Lagui-Sail","Barangay No. 54-B, Camangaan","Barangay No. 55-A, Barit-Pandan","Barangay No. 55-B, Salet-Bulangon","Barangay No. 55-C, Vira","Barangay No. 56-A, Bacsil North","Barangay No. 56-B, Bacsil South","Barangay No. 57, Pila","Barangay No. 58, Casili","Barangay No. 59-A, Dibua South","Barangay No. 59-B, Dibua North","Barangay No. 6, San Agustin","Barangay No. 60-A, Caaoacan","Barangay No. 60-B, Madiladig","Barangay No. 61, Cataban","Barangay No. 62-A, Navotas North","Barangay No. 62-B, Navotas South","Barangay No. 7-A, Nuestra Senora de Natividad","Barangay No. 7-B, Nuestra Senora de Natividad", "Barangay No. 8, San Vicente", "Barangay No. 9, Santa Angela"};

string BatacBrgys[] = {"Ablan Poblacion","Acosta Poblacion","Aglipay","Baay","Baligat","Baoa East","Baoa West","Barani","Ben-agan","Bil-loca","Biningan","Bungon","Callaguip","Camandingan","Camguidan","Cangrunaan","Capacuan","Caunayan","Colo","Dariwdiw","Lacub","Mabaleng","Magnuang","Maipalig","Nagbacalan","Naguirangan","Palongpong","Palpalicong","Parangopong","Payao","Pimentel","Quiling Norte","Quiling Sur","Quiom","Rayuray","Ricarte Poblacion","San Julian","San Mateo","San Pedro","Suabit","Sumader","Tabug","Valdez Poblacion"};

string IlocosNorMuni[]{"Adams","Bacarra","Badoc","Bangui","Banna","Burgos","Carasi","Currimao","Dingras","Dumalneg","Marcos","Nueva Era","Pagudpud","Paoay","Pasuquin","Piddig","Pinili","San Nicolas","Sarrat","Solsona","Vintar"};

string ViganBrgys[]{"Ayusan Norte","Ayusan Sur","Barangay I","Barangay II","Barangay II","Barangay IV","Barangay IX","Barangay V","Barangay VI","Barangay VII","Barangay VIII","Barraca","Beddeng Daya","Beddeng Laud","Bongtolan","Bulala","Cabalangegan","Cabaroan Daya","Cabaroan Laud","Camangaan","Capangpangan","Mindoro","Nagsangalan","Pantay Daya","Pantay Fatima","Pantay Laud","Paoa","Paratong","Pong-ol","Purok-a-bassit","Purok-a-dackel","Raois","Rugsuanan","Salindeg","San Jose","San Julian Norte","San Julian Sur","San Pedro","Tamag"};

string CandonBrgys[]{"Allangigan Primero","Allangigan Segundo","Amguid","Ayudante","Bagani Camposanto","Bagani Gabor","Bagani Togco","Bagani Ubbog","Bagar","Balingaoan","Bugnay","Calaoaan","Calongbuyan","Caterman","Cubcubboot","Darapidap","Langlangca Primero","Langlangca Segundo","Oaig-Daya","Palacapac","Paras","Parioc Primero","Parioc Segundo","Patpata Primero","Patpata Segundo","Paypayad","Salvador Primero","Salvador Segundo","San Agustin","San Andres","San Antonio","San Isidro","San Jose","San Juan","San Nicolas","San Pedro","Santo Tomas","Tablac","Talogtog","Tamurong Primero","Tamurong Segundo","Villarica"};

string IlocosSurMuni[] {"Alilem","Banayoyo","Bantay","Burgos","Cabugao","Caoayan","Cervantes","Galimuyod","Gregorio del Pilar","Lidlidda","Magsingal","Nagbukel","Narvacan","Quirino","Salcedo","San Emilio","San Ildefonso","San Juan","San Vicente","Santa","Santa Catalina","Santa Cruz","Santa Lucia","Santa Maria","Santiago","Santo Domingo","Sigay","Sinait","Sugpon","Suyo","Tagudin"};

string SanFernandoBrgys[] {"Abut","Apaleng","Bacsil","Bangbangolan","Bangcusay","Barangay I","Barangay II","Barangay III","Barangay IV","Baraoas","Bato","Biday","Birunget","Bungro","Cabaroan","Cabarsican","Cadaclan","Calabugao","Camansi","Canaoay","Carlatan","Catbangen","Dallangayan Este","Dallangayan Oeste","Dalumpinas Este","Dalumpinas Oeste","Ilocanos Norte","Ilocanos Sur","Langcuas","Lingsat","Madayegdeg","Mameltac","Masicong","Nagyubuyuban","Namtutan","Narra Este","Narra Oeste","Pacpaco","Pagdalagan","Pagdaraoan","Pagudpud","Pao Norte","Pao Sur","Parian","Pias","Poro","Puspus","Sacyud","Sagayad","San Agustin","San Francisco","San Vicente","Santiago Norte","Santiago Sur","Saoay","Sevilla","Siboan-Otong","Tanqui","Tanquigan"};

string AlaminosBrgys[] {"Alos","Amandiego","Amangbangan","Balangobong","Balayang","Baleyadaan","Bisocol","Bolaney","Bued","Cabatuan","Cayucay","Dulacac","Inerangan","Landoc","Linmansangan","Lucap","Maawi","Macatiw","Magsaysay","Mona","Palamis","Pandan","Pangapisan","Poblacion","Pocalpocal","Pogo","Polo","Quibuar","Sabangan","San Antonio","San Jose","San Roque","San Vicente","Santa Maria","Tanaytay","Tangcarang","Tawintawin","Telbang","Victoria"};

string DagupanBrgys[] {"Bacayao Norte","Bacayao Sur","Barangay I","Barangay II","Barangay IV","Bolosan","Bonuan Binloc","Bonuan Boquig","Bonuan Gueset","Calmay","Carael","Caranglaan","Herrero","Lasip Chico","Lasip Grande","Lomboy","Lucao","Malued","Mamalingling","Mangin","Mayombo","Pantal","Poblacion Oeste","Pogo Chico","Pogo Grande","Pugaro Suit","Salapingao","Salisay","Tambac","Tapuac","Tebeng"};

string SanCarlosBrgys[] {"Abanon","Agdao","Anando","Ano","Antipangol","Aponit","Bacnar","Balaya","Balayong","Baldog","Balite Sur","Balococ","Bani","Bega","Bocboc","Bogaoan","Bolingit","Bolosan","Bonifacio","Buenglat","Bugallon-Posadas Street","Burgos Padlan","Cacaritan","Caingal","Calobaoan","Calomboyan","Caoayan-Kiling","Capataan","Cobol","Coliling","Cruz","Doyong","Gamata","Guelew","Ilang","Inerangan","Isla","Libas","Lilimasan","Longos","Lucban","M. Soriano","Mabalbalino","Mabini","Magtaking","Malacanang","Maliwara","Mamarlao","Manzon","Matagdem","Mestizo Norte","Naguilayan","Nilentap","Padilla-Gomez","Pagal","Paitan-Panoypoy","Palaming","Palaris","Palospos","Pangalangan","Pangoloan","Pangpang","Parayao","Payapa","Payar","Perez Boulevard","PNR Station Site","Polo","Quezon Boulevard","Quintong","Rizal","Roxas Boulevard","Salinap","San Juan","San Pedro-Taloy","Sapinit","Supo","Talang","Tamayo","Tandang Sora","Tandoc","Tarece","Tarectec","Tayambani","Tebag","Turac"};

string UrdanetaBrgys[] {"Anonas","Bactad East","Bayaoas","Bolaoen","Cabaruan","Cabuloan","Camanang","Camantiles","Casantaan","Catablan","Cayambanan","Consolacion","Dilan Paurido","Dr. Pedro T. Orata","Labit Proper","Labit West","Mabanogbog","Macalong","Nancalobasaan","Nancamaliran East","Nancamaliran West","Nancayasan","Oltama","Palina East","Palina West","Pinmaludpod","Poblacion","San Jose","San Vicente","Santa Lucia","Santo Domingo","Sugcong","Tipuso","Tulong"};

string PangasinanMuni[] = {"Agno", "Aguilar", "Alcala", "Anda", "Asingan", "Balungao", "Bani", "Basista", "Bautista", "Bayambang", "Binalonan", "Binmaley", "Bolinao", "Bugallon", "Burgos", "Calasiao", "Dasol", "Infanta", "Labrador", "Laoac", "Lingayen - Capital of Pangasinan", "Mabini", "Malasiqui", "Manaoag", "Mangaldan", "Mangatarem", "Mapandan", "Natividad", "Pozorrubio", "Rosales", "San Fabian", "San Jacinto", "San Manuel", "San Nicolas", "San Quintin", "Santa Barbara", "Santa Maria", "Santo Tomas", "Sison", "Sual", "Tayug", "Umingan", "Urbiztondo", "Villasis"};

string TuguegaraoBrgys[] = {"Annafunan East", "Annafunan West", "Atulayan Norte", "Atulayan Sur", "Bagay", "Buntun", "Caggay", "Capatan", "Carig", "Caritan Centro", "Caritan Norte", "Caritan Sur", "Cataggaman Nuevo", "Cataggaman Pardo", "Cataggaman Viejo", "Centro 1", "Centro 10", "Centro 11", "Centro 12", "Centro 2", "Centro 3", "Centro 4", "Centro 5", "Centro 6", "Centro 7", "Centro 8", "Centro 9", "Dadda", "Gosi Norte", "Gosi Sur", "Larion Alto", "Larion Bajo", "Leonarda", "Libag Norte", "Libag Sur", "Linao East", "Linao Norte", "Linao West", "Nambbalan Norte", "Nambbalan Sur", "Pallua Norte", "Pallua Sur", "Pengue", "Reyes", "San Gabriel", "Tagga", "Tanza", "Ugac Norte", "Ugac Sur"};

string CagayanMuni[] = {"Abulug", "Alcala", "Allacapan", "Amulung", "Aparri", "Baggao", "Ballesteros", "Buguey", "Calayan", "Camalaniugan", "Claveria", "Enrile", "Gattaran", "Gonzaga", "Iguig", "Lal-lo", "Lasam", "Pamplona", "Penablanca", "Piat", "Rizal", "Sanchez-Mira", "Santa Ana", "Santa Praxedes", "Santa Teresita", "Santo Nino", "Solana", "Tuao"};

string CauayanBrgys[] = {"Alicaocao", "Alinam", "Amobocan", "Andarayan", "Baculod", "Baringin Norte", "Baringin Sur", "Buena Suerte", "Bugallon", "Buyon", "Cabaruan", "Cabugao", "Carabatan Bacareno", "Carabatan Chica", "Carabatan Grande", "Carabatan Punta", "Casalatan", "Cassap Fuera", "Catalina", "Culalabat", "Dabburab", "De Vera", "Dianao", "Disimuray", "District I", "District II", "District III", "Duminit", "Faustino", "Gagabutan", "Gappal", "Guayabal", "Labinab", "Linglingay", "Mabantad", "Maligaya", "Manaoag", "Marabulig I", "Marabulig II", "Minante I", "Minante II", "Naganacan", "Nagcampegan", "Nagrumbuan", "Nungnungan I", "Nungnungan II", "Pinoma", "Rizal", "Rogus", "San Antonio", "San Fermin", "San Francisco", "San Isidro", "San Luis", "San Pablo", "Santa Luciana", "Santa Maria", "Sillawit", "Sinippil", "Tagaran", "Turayong", "Union", "Villa Concepcion", "Villa Luna", "Villaflor"};

string IlaganBrgys[] = {"Aggasian", "Alibagu", "Allinguigan 1st", "Allinguigan 2nd", "Allinguigan 3rd", "Arusip", "Baculod", "Bagong Silang", "Bagumbayan", "Baligatan", "Ballacong", "Bangag", "Batong-Labang", "Bigao", "Cabannungan 1st", "Cabannungan 2nd", "Cabeseria 10", "Cabeseria 14 and 16", "Cabeseria 17 and 21", "Cabeseria 19", "Cabeseria 2", "Cabeseria 22", "Cabeseria 23", "Cabeseria 25", "Cabeseria 27", "Cabeseria 3", "Cabeseria 4", "Cabeseria 5", "Cabeseria 6 & 24", "Cabeseria 7", "Cabeseria 9 and 11", "Cadu", "Calamagui 1st", "Calamagui 2nd", "Camunatan", "Capellan", "Capo", "Carikkikan Norte", "Carikkikan Sur", "Centro Poblacion", "Centro-San Antonio", "Fugu", "Fuyo", "Gayong-Gayong Norte", "Gayong-Gayong Sur", "Guinatan", "Imelda Bliss Village", "Lullutan", "Malalam", "Malasin", "Manaring", "Mangcuram", "Marana I", "Marana II", "Marana III", "Minabang", "Morado", "Naguilian Norte", "Naguilian Sur", "Namnama", "Nanaguan", "Osmena", "Paliueg", "Pasa", "Pilar", "Quimalabasa", "Rang-ayan", "Rugao", "Salindingan", "San Andres", "San Felipe", "San Ignacio", "San Isidro", "San Juan", "San Lorenzo", "San Pablo", "San Rodrigo", "San Vicente", "Santa Barbara", "Santa Catalina", "Santa Isabel Norte", "Santa Isabel Sur", "Santa Maria", "Santa Victoria", "Santo Tomas", "Siffu", "Sindon Bayabo", "Sindon Maride", "Sipay", "Tangcul", "Villa Imelda"};

string SantiagoBrgys[] = {"Abra", "Ambalatungan", "Balintocatoc", "Baluarte", "Bannawag Norte", "Batal", "Buenavista", "Cabulay", "Calao East", "Calao West", "Calaocan", "Centro East", "Centro West", "Divisoria", "Dubinan East", "Dubinan West", "Luna", "Mabini", "Malvar", "Nabbuan", "Naggasican", "Patul", "Plaridel", "Rizal", "Rosario", "Sagana", "Salvador", "San Andres", "San Isidro", "San Jose", "Santa Rosa", "Sinili", "Sinsayon", "Victory Norte", "Victory Sur", "Villa Gonzaga", "Villasis"};

string IsabelaMuni[] = {"Alicia", "Angadanan", "Aurora", "Benito Soliven", "Burgos", "Cabagan", "Cabatuan", "Cordon", "Delfin Albano", "Dinapigue", "Echague", "Gamu", "Jones", "Luna", "Maconacon", "Mailig", "Naguilian", "Palanan", "Quezon", "Quirino", "Ramon", "Reina Mercedes", "Roxas", "San Agustin", "San Guillermo", "San Isidro", "San Manuel", "San Mariano", "San Matero", "San Pablo", "Santa Maria", "Santo Tomas", "Tumauini"};

string BalangaBrgys[] = {"Bagong Silang", "Bagumbayan", "Cabog-Cabog", "Camacho", "Cataning", "Central", "Cupang North", "Cupang Proper", "Cupang West", "Dangcol", "Dona Francisca", "Ibayo", "Lote", "Malabia", "Munting Batangas", "Poblacion", "Pto. Rivas Ibaba", "Pto. Rivas Itaas", "San Jose", "Sibacan", "Talisay", "Tanato", "Tenejero", "Tortugas", "Tuyo"};

string MeycauayanBrgys[] = {"Bagbaguin", "Bahay Pare", "Bancal", "Banga", "Bayugo", "Caingin", "Calvario", "Camalig", "Hulo", "Iba", "Langka", "Lawa", "Libtong", "Liputan", "Longos", "Malhacan", "Pajo", "Pandayan", "Pantoc", "Perez", "Poblacion", "Saint Francis", "Saluysoy", "Tugatog", "Ubihan", "Zamora"};

string SJdMBrgys[] = {"Assumption", "Bagong Buhay", "Bagong Buhay II", "Bagong Buhay III", "Citrus", "Ciudad Real", "Dulong Bayan", "Fatima", "Fatima II", "Fatima III", "Fatima IV", "Fatima V", "Francisco Homes-Guijo", "Francisco Homes-Mulawin", "Francisco Homes-Narra", "Francisco Homes-Yakal", "Gaya-gaya", "Graceville", "Gumaoc Central", "Gumaoc East", "Gumaoc West", "Kaybanban", "Kaypian", "Lawang Pari", "Maharlika", "Minuyan", "Minuyan II", "Minuyan III", "Minuyan IV", "Minuyan Proper", "Minuyan V", "Muzon", "Paradise III", "Poblacion", "Poblacion I", "Saint Martin de Porres", "San Isidro", "San Manuel", "San Martin", "San Martin II", "San Martin III", "San Martin IV", "San Pedro", "San Rafael", "San Rafael I", "San Rafael III", "San Rafael IV", "San Rafael V", "San Roque", "Santa Cruz", "Santa Cruz II", "Santa Cruz III", "Santa Cruz IV", "Santa Cruz V", "Santo Cristo", "Santo Nino", "Santo Nino II", "Sapang Palay", "Tungkong Mangga"};

string MalolosBrgys[] = {"Anilao", "Atlag", "Babatnin", "Bagna", "Bagong Bayan", "Balayong", "Balite", "Bangkal", "Barihan", "Bulihan", "Bungahan", "Caingin", "Calero", "Caliligawan", "Canalate", "Caniogan", "Catmon", "Cofradia", "Dakila", "Guinhawa", "Ligas", "Liyang", "Longos", "Look 1st", "Look 2nd", "Lugam", "Mabolo", "Mambog", "Masile", "Matimbo", "Mojon", "Namayan", "Niugan", "Pamarawan", "Panasakan", "Pinagbakahan", "San Agustin", "San Gabriel", "San Juan", "San Pablo", "San Vicente", "Santiago", "Santisima Trinidad", "Santo Cristo", "Santo Nino", "Santo Rosario", "Santol", "Sumapang Bata", "Sumapang Matanda", "Taal", "Tikay"};

string NuevaEcijaMuni[] = {"Aliaga", "Bongabon", "Cabiao", "Carranglan", "Cuyapo", "Gabaldon", "General Mamerto Natividad", "General Tinio", "Guimba", "Jaen", "Laur", "Licab", "Llanera", "Lupao", "Nampicuan", "Pantabangan", "Penaranda", "Quezon", "Rizal", "San Antonio", "San Isidro", "San Leonardo", "Santa Rosa", "Santo Domingo", "Talavera", "Talugtug", "Zaragoza"};

string SanFernandoPampangaBrgys[] = {"Alasas", "Baliti", "Bulaon", "Calulut", "Del Carmen", "Del Pilar", "Del Rosario", "Dela Paz Norte", "Dela Paz Sur", "Dolores", "Juliana", "Lara", "Lourdes", "Magliman", "Maimpis", "Malino", "Malpitic", "Pandaras", "Panipuan", "Pulung Bulu", "Quebiauan", "Saguin", "San Agustin", "San Felipe", "San Isidro", "San Jose", "San Juan", "San Nicolas", "San Pedro", "Santa Lucia", "Santa Teresita", "Santo Nino", "Santo Rosario", "Sindalan", "Telabastagan"};

string AngelesBrgys[] = {"Agapito del Rosario", "Amsic", "Anunas", "Balibago", "Capaya", "Claro M. Recto", "Cuayan", "Cutcut", "Cutud", "Lourdes North West", "Lourdes Sur", "Lourdes Sur East", "Malabanias", "Margot", "Mining", "Ninoy Aquino", "Pampang", "Pandan", "Pulung Cacutud", "Pulung Maragul", "Pulungbulu", "Salapungan", "San Jose", "San Nicolas", "Santa Teresita", "Santa Trinidad", "Santo Cristo", "Santo Domingo", "Santo Rosario", "Sapalibutad", "Sapangbato", "Tabun", "Virgen Delos Remedios"};

string TarlacBrgys[] = {"Aguso", "Alvindia Segundo", "Amucao", "Armenia", "Asturias", "Atioc", "Balanti", "Balete", "Balibago I", "Balibago II", "Balingcanaway", "Banaba", "Bantog", "Baras-baras", "Batang-batang", "Binauganan", "Bora", "Buenavista", "Buhilit", "Burot", "Calingcuan", "Capehan", "Carangian", "Care", "Central", "Culipat", "Cut-cut I", "Cut-cut II", "Dalayap", "Dela Paz", "Dolores", "Laoang", "Ligtasan", "Lourdes", "Mabini", "Maligaya", "Maliwalo", "Mapalacsiao", "Mapalad", "Matadero", "Matatalaib", "Paraiso", "Poblacion", "Salapungan", "San Carlos", "San Francisco", "San Isidro", "San Jose", "San Jose de Urquico", "San Juan de Mata", "San Luis", "San Manuel", "San Miguel", "San Nicolas", "San Pablo", "San Pascual", "San Rafael", "San Roque", "San Sebastian", "San Vicente", "Santa Cruz", "Santa Maria", "Santo Cristo", "Santo Domingo", "Santo Nino", "Sapang Maragul", "Sapang Tagalog", "Sepung Calzada", "Sinait", "Suizo", "Tariji", "Tibag", "Tibagan", "Trinidad", "Ungot", "Villa Bacolor"};

string OlongapoBrgys[] = {"Asinan", "Banicain", "Barreto", "East Bajac-bajac", "East Tapinac", "Gordon Heights", "Kalaklan", "Mabayuan", "New Cabalan", "New Ilalim", "New Kababae", "New Kalalake", "Old Cabalan", "Pag-asa", "Santa Rita", "West Bajac-bajac", "West Tapinac"};

string BatangasCityBrgys[] = {"Alangilan", "Balagtas", "Balete", "Banaba Center", "Banaba Ibaba", "Banaba Kanluran", "Banaba Silangan", "Barangay 1", "Barangay 10", "Barangay 11", "Barangay 12", "Barangay 13", "Barangay 14", "Barangay 15", "Barangay 16", "Barangay 17", "Barangay 18", "Barangay 19", "Barangay 2", "Barangay 20", "Barangay 21", "Barangay 22", "Barangay 23", "Barangay 24", "Barangay 3", "Barangay 4", "Barangay 5", "Barangay 6", "Barangay 7", "Barangay 8", "Barangay 9", "Bilogo", "Bolbok", "Bukal", "Calicanto", "Catandala", "Concepcion", "Conde Itaas", "Conde Labak", "Cuta", "Dalig", "Dela Paz", "Dela Paz Pulot Aplaya", "Dela Paz Pulot Itaas", "Domoclay", "Dumantay", "Gulod Itaas", "Gulod Labak", "Haligue Kanluran", "Haligue Silangan", "Ilihan", "Kumba", "Kumintang Ibaba", "Kumintang Ilaya", "Libjo", "Liponpon, Isla Verde", "Maapas", "Mabacong", "Mahabang Dahilig", "Mahabang Parang", "Mahacot Kanluran", "Mahacot Silangan", "Malalim", "Malibayo", "Malitam", "Maruclap", "Pagkilatan", "Paharang Kanluran", "Paharang Silangan", "Pallocan Kanluran", "Pallocan Silangan", "Pinamucan", "Pinamucan Ibaba", "Pinamucan Silangan", "Sampaga", "San Agapito, Isla Verde", "San Agustin Kanluran, Isla Verde", "San Agustin Silangan, Isla Verde", "San Andres, Isla Verde", "San Antonio, Isla Verde", "San Isidro", "San Jose Sico", "San Miguel", "San Pedro", "Santa Clara", "Santa Rita Aplaya", "Santa Rita Karsada", "Santo Domingo", "Santo Nino", "Simlong", "Sirang Lupa", "Sorosoro Ibaba", "Sorosoro Ilaya", "Sorosoro Karsada", "Tabangao Ambulong", "Tabangao Aplaya", "Tabangao Dao", "Talahib Pandayan", "Talahib Payapa", "Talumpok Kanluran", "Talumpok Silangan", "Tinga Itaas", "Tinga Labak", "Tulo", "Wawa"};

string LipaCityBrgys[] = {"Adya", "Anilao", "Anilao-Labac", "Antipolo del Norte", "Antipolo del Sur", "Bagong Pook", "Balintawak", "Banaybanay", "Barangay 12", "Bolbok", "Bugtong na Pulo", "Bulacnin", "Bulaklakan", "Calamias", "Cumba", "Dagatan", "Duhatan", "Halang", "Inosloban", "Kayumanggi", "Latag", "Lodlod", "Lumbang", "Mabini", "Malagonlong", "Malitlit", "Marauoy", "Mataas na Lupa", "Munting Pulo", "Pagolingin Bata", "Pagolingin East", "Pagolingin West", "Pangao", "Pinagkawitan", "Pinagtongulan", "Plaridel", "Poblacion Barangay 1", "Poblacion Barangay 10", "Poblacion Barangay 11", "Poblacion Barangay 2", "Poblacion Barangay 3", "Poblacion Barangay 4", "Poblacion Barangay 5", "Poblacion Barangay 6", "Poblacion Barangay 7", "Poblacion Barangay 8", "Poblacion Barangay 9", "Poblacion Barangay 9-A", "Pusil", "Quezon", "Rizal", "Sabang", "Sampaguita", "San Benito", "San Carlos", "San Celestino", "San Francisco", "San Guillermo", "San Jose", "San Lucas", "San Salvador", "San Sebastian", "Santo Nino", "Santo Toribio", "Sapac", "Sico", "Talisay", "Tambo", "Tangob", "Tanguay", "Tibig", "Tipacan"};

string SantoTomasBatangasBrgys[] = {"Barangay I", "Barangay II", "Barangay III", "Barangay IV", "San Agustin", "San Antonio", "San Bartolome", "San Felix", "San Fernando", "San Francisco", "San Isidro Norte", "San Isidro Sur", "San Joaquin", "San Jose", "San Juan", "San Luis", "San Miguel", "San Pablo", "San Pedro", "San Rafael", "San Roque", "San Vicente", "Santa Ana", "Santa Anastacia", "Santa Clara", "Santa Cruz", "Santa Elena", "Santa Maria", "Santa Teresita", "Santiago"};

string TanauanBrgys[] = {"Altura Bata", "Altura Matanda", "Altura-South", "Ambulong", "Bagbag", "Bagumbayan", "Balele", "Banadero", "Banjo East", "Banjo Laurel", "Bilog-bilog", "Boot", "Cale", "Darasa", "Gonzales", "Hidalgo", "Janopol", "Janopol Oriental", "Laurel", "Luyos", "Mabini", "Malaking Pulo", "Maria Paz", "Maugat", "Montana", "Natatas", "Pagaspas", "Pantay Bata", "Pantay Matanda", "Poblacion Barangay 1", "Poblacion Barangay 2", "Poblacion Barangay 3", "Poblacion Barangay 4", "Poblacion Barangay 5", "Poblacion Barangay 6", "Poblacion Barangay 7", "Sala", "Sambat", "San Jose", "Santol", "Santor", "Sulpoc", "Suplang", "Talaga", "Tinurik", "Trapiche", "Ulango", "Wawa"};

string BatangasProvMuni[] = {"Agoncillo", "Alitagtag", "Balayan", "Balete", "Bauan", "Calaca", "Calatagan", "Cuenca", "Ibaan", "Laurel", "Lemery", "Lian", "Lobo", "Mabini", "Malvar", "Mataasnakahoy", "Nasugbu", "Padre Garcia", "Rosario", "San Jose", "San Juan", "San Luis", "San Nicolas", "San Pascual", "Santa Teresita", "Taal", "Talisay", "Taysan", "Tingloy", "Tuy"};

string BacoorBrgys[] = {"Alima", "Aniban I", "Aniban II", "Aniban III", "Aniban IV", "Aniban V", "Banalo", "Bayanan", "Campo Santo", "Daang Bukid", "Digman", "Dulong Bayan", "Habay I", "Habay II", "Kaingin", "Ligas I", "Ligas II", "Ligas III", "Mabolo I", "Mabolo II", "Mabolo III", "Maliksi I", "Maliksi II", "Maliksi III", "Mambog I", "Mambog II", "Mambog III", "Mambog IV", "Mambog V", "Molino I", "Molino II", "Molino III", "Molino IV", "Molino V", "Molino VI", "Molino VII", "Niog I", "Niog II", "Niog III", "P. F. Espiritu I", "P. F. Espiritu II", "P. F. Espiritu III", "P. F. Espiritu IV", "P. F. Espiritu V", "P. F. Espiritu VI", "P. F. Espiritu VII", "P. F. Espiritu VIII", "Queens Row Central", "Queens Row East", "Queens Row West", "Real I", "Real II", "Salinas I", "Salinas II", "Salinas III", "Salinas IV", "San Nicolas I", "San Nicolas II", "San Nicolas III", "Sineguelasan", "Tabing Dagat", "Talaba I", "Talaba II", "Talaba III", "Talaba IV", "Talaba V", "Talaba VI", "Talaba VII", "Zapote I", "Zapote II", "Zapote III", "Zapote IV", "Zapote V"};

string CaviteCityBrgys[] = {"Barangay 1", "Barangay 10", "Barangay 10-A", "Barangay 10-B", "Barangay 11", "Barangay 12", "Barangay 13", "Barangay 14", "Barangay 15", "Barangay 16", "Barangay 17", "Barangay 18", "Barangay 19", "Barangay 2", "Barangay 20", "Barangay 21", "Barangay 22", "Barangay 22-A", "Barangay 23", "Barangay 24", "Barangay 25", "Barangay 26", "Barangay 27", "Barangay 28", "Barangay 29", "Barangay 29-A", "Barangay 3", "Barangay 30", "Barangay 31", "Barangay 32", "Barangay 33", "Barangay 34", "Barangay 35", "Barangay 36", "Barangay 36-A", "Barangay 37", "Barangay 37-A", "Barangay 38", "Barangay 38-A", "Barangay 39", "Barangay 4", "Barangay 40", "Barangay 41", "Barangay 42", "Barangay 42-A", "Barangay 42-B", "Barangay 42-C", "Barangay 43", "Barangay 44", "Barangay 45", "Barangay 45-A", "Barangay 46", "Barangay 47", "Barangay 47-A", "Barangay 47-B", "Barangay 48", "Barangay 48-A", "Barangay 49", "Barangay 49-A", "Barangay 5", "Barangay 50", "Barangay 51", "Barangay 52", "Barangay 53", "Barangay 53-A", "Barangay 53-B", "Barangay 54", "Barangay 54-A", "Barangay 55", "Barangay 56", "Barangay 57", "Barangay 58", "Barangay 58-A", "Barangay 59", "Barangay 6", "Barangay 60", "Barangay 61", "Barangay 61-A", "Barangay 62", "Barangay 62-A", "Barangay 62-B", "Barangay 7", "Barangay 8", "Barangay 9"};

string DasmaBrgys[] = {"Burol", "Burol I", "Burol II", "Burol III", "Datu Esmael", "Emmanuel Bergado I", "Emmanuel Bergado II", "Fatima I", "Fatima II", "Fatima III", "H-2", "Langkaan I", "Langkaan II", "Luzviminda I", "Luzviminda II", "Paliparan I", "Paliparan II", "Paliparan III", "Sabang", "Saint Peter I", "Saint Peter II", "Salawag", "Salitran I", "Salitran II", "Salitran III", "Salitran IV", "Sampaloc I", "Sampaloc II", "Sampaloc III", "Sampaloc IV", "Sampaloc V", "San Agustin I", "San Agustin II", "San Agustin III", "San Andres I", "San Andres II", "San Antonio de Padua I", "San Antonio de Padua II", "San Dionisio", "San Esteban", "San Francisco I", "San Francisco II", "San Isidro Labrador I", "San Isidro Labrador II", "San Jose", "San Juan", "San Lorenzo Ruiz I", "San Lorenzo Ruiz II", "San Luis I", "San Luis II", "San Manuel I", "San Manuel II", "San Mateo", "San Miguel", "San Miguel II", "San Nicolas I", "San Nicolas II", "San Roque", "San Simon", "Santa Cristina I", "Santa Cristina II", "Santa Cruz I", "Santa Cruz II", "Santa Fe", "Santa Lucia", "Santa Maria", "Santo Cristo", "Santo Nino I", "Santo Nino II", "Victoria Reyes", "Zone I", "Zone I-B", "Zone II", "Zone III", "Zone IV"};

string GenTriasBrgys[] = {"Alingaro", "Arnaldo Poblacion", "Bacao I", "Bacao II", "Bagumbayan Poblacion", "Biclatan", "Buenavista I", "Buenavista II", "Buenavista III", "Corregidor Poblacion", "Dulong Bayan Poblacion", "Gov. Ferrer Poblacion", "Javalera", "Manggahan", "Navarro", "Ninety Sixth Poblacion", "Panungyanan", "Pasong Camachile I", "Pasong Camachile II", "Pasong Kawayan I", "Pasong Kawayan II", "Pinagtipunan", "Prinza Poblacion", "Sampalucan Poblacion", "San Francisco", "San Gabriel Poblacion", "San Juan I", "San Juan II", "Santa Clara", "Santiago", "Tapia", "Tejero", "Vibora Poblacion"};

string ImusBrgys[] = {"Alapan I-A", "Alapan I-B", "Alapan I-C", "Alapan II-A", "Alapan II-B", "Anabu I-A", "Anabu I-B", "Anabu I-C", "Anabu I-D", "Anabu I-E", "Anabu I-F", "Anabu I-G", "Anabu II-A", "Anabu II-B", "Anabu II-C", "Anabu II-D", "Anabu II-E", "Anabu II-F", "Bagong Silang", "Bayan Luma I", "Bayan Luma II", "Bayan Luma III", "Bayan Luma IV", "Bayan Luma IX", "Bayan Luma V", "Bayan Luma VI", "Bayan Luma VII", "Bayan Luma VIII", "Bucandala I", "Bucandala II", "Bucandala III", "Bucandala IV", "Bucandala V", "Buhay na Tubig", "Carsadang Bago I", "Carsadang Bago II", "Magdalo", "Maharlika", "Malagasang I-A", "Malagasang I-B", "Malagasang I-C", "Malagasang I-D", "Malagasang I-E", "Malagasang I-F", "Malagasang I-G", "Malagasang II-A", "Malagasang II-B", "Malagasang II-C", "Malagasang II-D", "Malagasang II-E", "Malagasang II-F", "Malagasang II-G", "Mariano Espeleta I", "Mariano Espeleta II", "Mariano Espeleta III", "Medicion I-A", "Medicion I-B", "Medicion I-C", "Medicion I-D", "Medicion II-A", "Medicion II-B", "Medicion II-C", "Medicion II-D", "Medicion II-E", "Medicion II-F", "Pag-asa I", "Pag-asa II", "Pag-asa III", "Palico I", "Palico II", "Palico III", "Palico IV", "Pasong Buaya I", "Pasong Buaya II", "Pinagbuklod", "Poblacion I-A", "Poblacion I-B", "Poblacion I-C", "Poblacion II-A", "Poblacion II-B", "Poblacion III-A", "Poblacion III-B", "Poblacion IV-A", "Poblacion IV-B", "Poblacion IV-C", "Poblacion IV-D", "Tanzang Luma I", "Tanzang Luma II", "Tanzang Luma III", "Tanzang Luma IV", "Tanzang Luma V", "Tanzang Luma VI", "Toclong I-A", "Toclong I-B", "Toclong I-C", "Toclong II-A", "Toclong II-B"};

string TagaytayBrgys[] = {"Asisan", "Bagong Tubig", "Calabuso", "Dapdap East", "Dapdap West", "Francisco", "Guinhawa North", "Guinhawa South", "Iruhin East", "Iruhin South", "Iruhin West", "Kaybagal East", "Kaybagal North", "Kaybagal South", "Mag-Asawang Ilat", "Maharlika East", "Maharlika West", "Maitim 2nd Central", "Maitim 2nd East", "Maitim 2nd West", "Mendez Crossing East", "Mendez Crossing West", "Neogan", "Patutong Malaki North", "Patutong Malaki South", "Sambong", "San Jose", "Silang Junction North", "Silang Junction South", "Sungay North", "Sungay South", "Tolentino East", "Tolentino West", "Zambal"};

string TreceMartBrgys[] = {"Aguado", "Cabezas", "Cabuco", "Conchu", "De Ocampo", "Gregorio", "Inocencio", "Lallana", "Lapidario", "Luciano", "Osorio", "Perez", "San Agustin"};

string BinanCityBrgys[] = {"Binan", "Bungahan", "Canlalay", "Casile", "De La Paz", "Ganado", "Langkiwa", "Loma", "Malaban", "Malamig", "Mampalasan", "Platero", "Poblacion", "San Antonio", "San Francisco", "San Jose", "San Vicente", "Santo Domingo", "Santo Nino", "Santo Tomas", "Soro-soro", "Timbao", "Tubigan", "Zapote"};

string CabuyaoBrgys[] = {"Baclaran", "Banaybanay", "Banlic", "Barangay Dos", "Barangay Tres", "Barangay Uno", "Bigaa", "Butong", "Casile", "Diezmo", "Gulod", "Mamatid", "Marinig", "Niugan", "Pittland", "Pulo", "Sala", "San Isidro"};

string CalambaBrgys[] = {"Bagong Kalsada", "Banadero", "Banlic", "Barandal", "Barangay 1", "Barangay 2", "Barangay 3", "Barangay 4", "Barangay 5", "Barangay 6", "Barangay 7", "Batino", "Bubuyan", "Bucal", "Bunggo", "Burol", "Camaligan", "Canlubang", "Halang", "Hornalan", "Kay-Anlog", "La Mesa", "Laguerta", "Lawa", "Lecheria", "Lingga", "Looc", "Mabato", "Majada Labas", "Makiling", "Mapagong", "Masili", "Maunong", "Mayapa", "Milagrosa", "Paciano Rizal", "Palingon", "Palo-Alto", "Pansol", "Parian", "Prinza", "Punta", "Puting Lupa", "Real", "Saimsim", "Sampiruhan", "San Cristobal", "San Jose", "San Juan", "Sirang Lupa", "Sucol", "Turbina", "Ulango", "Uwisan"};

string SanPabLagunaBrgys[] = {"Atisan", "Bagong Bayan II-A", "Bagong Pook VI-C", "Barangay I-A", "Barangay I-B", "Barangay II-A", "Barangay II-B", "Barangay II-C", "Barangay II-D", "Barangay II-E", "Barangay II-F", "Barangay III-A", "Barangay III-B", "Barangay III-C", "Barangay III-D", "Barangay III-E", "Barangay III-F", "Barangay IV-A", "Barangay IV-B", "Barangay IV-C", "Barangay V-A", "Barangay V-B", "Barangay V-C", "Barangay V-D", "Barangay VI-A", "Barangay VI-B", "Barangay VI-D", "Barangay VI-E", "Barangay VII-A", "Barangay VII-B", "Barangay VII-C", "Barangay VII-D", "Barangay VII-E", "Bautista", "Concepcion", "Del Remedio", "Dolores", "San Antonio 1", "San Antonio 2", "San Bartolome", "San Buenaventura", "San Crispin", "San Cristobal", "San Diego", "San Francisco", "San Gabriel", "San Gregorio", "San Ignacio", "San Isidro", "San Joaquin", "San Jose", "San Juan", "San Lorenzo", "San Lucas 1", "San Lucas 2", "San Marcos", "San Mateo", "San Miguel", "San Nicolas", "San Pedro", "San Rafael", "San Roque", "San Vicente", "Santa Ana", "Santa Catalina", "Santa Cruz", "Santa Elena", "Santa Felomina", "Santa Isabel", "Santa Maria", "Santa Maria Magdalena", "Santa Monica", "Santa Veronica", "Santiago I", "Santiago II", "Santisimo Rosario", "Santo Angel", "Santo Cristo", "Santo Nino", "Soledad"};

string SanPedLagunaBrgys[] = {"Bagong Silang", "Calendola", "Chrysanthemum", "Cuyab", "Estrella", "Fatima", "G.S.I.S.", "Landayan", "Langgam", "Laram", "Magsaysay", "Maharlika", "Narra", "Nueva", "Pacita 1", "Pacita 2", "Poblacion", "Riverside", "Rosario", "Sampaguita Village", "San Antonio", "San Lorenzo Ruiz", "San Roque", "San Vicente", "Santo Nino", "United Bayanihan", "United Better Living"};

string SantaRosaLagunaBrgys[] = {"Aplaya", "Balibago", "Caingin", "Dila", "Dita", "Don Jose", "Ibaba", "Kanluran", "Labas", "Macabling", "Malitlit", "Malusak", "Market Area", "Pook", "Pulong Santa Cruz", "Santo Domingo", "Sinalhan", "Tagapo"};

string LagunaMuni[] = {"Alaminos", "Bay", "Calauan", "Cavinti", "Famy", "Kalayaan", "Liliw", "Los Banos", "Luisiana", "Lumban", "Mabitac", "Magdalena", "Majayjay", "Nagcarlan", "Paete", "Pagsanjan", "Pakil", "Pangil", "Pila", "Rizal", "Santa Cruz - Capital of Laguna", "Santa Maria", "Siniloan", "Victoria"};

string LucenaCityBrgys[] = {"Barangay 1", "Barangay 10", "Barangay 11", "Barangay 2", "Barangay 3", "Barangay 4", "Barangay 5", "Barangay 6", "Barangay 7", "Barangay 8", "Barangay 9", "Barra", "Bocohan", "Cotta", "Dalahican", "Domoit", "Gulang-gulang", "Ibabang Dupay", "Ibabang Iyam", "Ibabang Talim", "Ilayang Dupay", "Ilayang Iyam", "Ilayang Talim", "Isabang", "Market View", "Mayao Castillo", "Mayao Crossing", "Mayao Kanluran", "Mayao Parada", "Mayao Silangan", "Ransohan", "Salinas", "Talao-talao"};

string TayabasBrgys[] = {"Alitao", "Alsam Ibaba", "Alsam Ilaya", "Alupay", "Angeles Zone I", "Angeles Zone II", "Angeles Zone III", "Angeles Zone IV", "Angustias Zone I", "Angustias Zone II", "Angustias Zone III", "Angustias Zone IV", "Anos", "Ayaas", "Baguio", "Banilad", "Bukal Ibaba", "Bukal Ilaya", "Calantas", "Calumpang", "Camaysa", "Dapdap", "Domoit Kanluran", "Domoit Silangan", "Gibanga", "Ibas", "Ilasan Ibaba", "Ilasan Ilaya", "Ipilan", "Isabang", "Katigan Kanluran", "Katigan Silangan", "Lakawan", "Lalo", "Lawigue", "Lita", "Malaoa", "Masin", "Mate", "Mateuna", "Mayowe", "Nangka Ibaba", "Nangka Ilaya", "Opias", "Palale Ibaba", "Palale Ilaya", "Palale Kanluran", "Palale Silangan", "Pandakaki", "Pook", "Potol", "San Diego Zone I", "San Diego Zone II", "San Diego Zone III", "San Diego Zone IV", "San Isidro Zone I", "San Isidro Zone II", "San Isidro Zone III", "San Isidro Zone IV", "San Roque Zone I", "San Roque Zone II", "Talolong", "Tamlong", "Tongko", "Valencia", "Wakas"};

string AntipoloRizalBrgys[] = {"Bagong Nayon", "Beverly Hills", "Calawis", "Cupang", "Dalig", "Dela Paz", "Inarawan", "Mambugan", "Mayamot", "Muntingdilaw", "San Isidro", "San Jose", "San Juan", "San Luis", "San Roque", "Santa Cruz"};

string PuertoPrincesaBrgys[] = {"Babuyan", "Bacungan", "Bagong Bayan", "Bagong Pag-asa", "Bagong Sikat", "Bagong Silang", "Bahile", "Bancao-bancao", "Barangay ng mga Mangingisda", "Binduyan", "Buenavista", "Cabayugan", "Concepcion", "Inagawan", "Inagawan Sub-Colony", "Irawan", "Iwahig", "Kalipay", "Kamuning", "Langogan", "Liwanag", "Lucbuan", "Luzviminda", "Mabuhay", "Macarascas", "Magkakaibigan", "Maligaya", "Manalo", "Mandaragat", "Manggahan", "Maningning", "Maoyon", "Marufinas", "Maruyogon", "Masigla", "Masikap", "Masipag", "Matahimik", "Matiyaga", "Maunlad", "Milagrosa", "Model", "Montible", "Napsan", "New Panggangan", "Pagkakaisa", "Princesa", "Salvacion", "San Jose", "San Manuel", "San Miguel", "San Pedro", "San Rafael", "Santa Cruz", "Santa Lourdes", "Santa Lucia", "Santa Monica", "Seaside", "Sicsican", "Simpocan", "Tagabinit", "Tagburos", "Tagumpay", "Tanabag", "Tanglaw", "Tiniguiban"};

string PalawanMuni[] = {"Aborlan", "Agutaya", "Araceli", "Balabac", "Bataraza", "Brooke's Point", "Busuanga", "Cagayancillo", "Coron", "Culion", "Cuyo", "Dumaran", "El Nido", "Kalayaan", "Linapacan", "Magsaysay", "Narra", "Quezon", "Rizal", "Roxas", "San Vicente", "Sofronio Espanola", "Taytay"};

string RomblonProvMuni[] = {"Alcantara", "Banton", "Cajidiocan", "Calatrava", "Concepcion", "Corcuera", "Ferrol", "Looc", "Magdiwang", "Odiongan", "Romblon - Capital of Romblon", "San Agustin", "San Andres", "San Fernando", "San Jose", "Santa Fe", "Santa Maria"};

string QuezonProvMuni[] = {"Agdangan", "Alabat", "Atimonan", "Buenavista", "Burdeos", "Candelaria", "Catanauan", "Dolores", "General Luna", "General Nakar", "Gumaca", "Infanta", "Jomalig", "Lopez", "Lucban", "Macalelon", "Mauban", "Mulanay", "Padre Burgos", "Pagbilao", "Panukulan", "Patnanungan", "Perez", "Pitogo", "Plaridel", "Polillo", "Quezon", "Real", "Sampaloc", "San Andres", "San Antonio", "San Francisco", "San Narciso", "Sariaya", "Tagkawayan", "Tiaong", "Unisan"};

string LegazpiBrgys[] = {"Barangay 10-Cabugao", "Barangay 11-Maoyod Poblacion", "Barangay 12-Tula-tula", "Barangay 13-Ilawod West Poblacion", "Barangay 14-Ilawod Poblacion", "Barangay 15-Ilawod East Poblacion", "Barangay 16-Kawit-East Washington Drive", "Barangay 17-Rizal Street, Ilawod", "Barangay 18-Cabagnan West", "Barangay 19-Cabagnan", "Barangay 1-Em's Barrio", "Barangay 20-Cabagnan East", "Barangay 21-Binanuahan West", "Barangay 22-Binanuahan East", "Barangay 23-Imperial Court Subd.", "Barangay 24-Rizal Street", "Barangay 25-Lapu-lapu", "Barangay 26-Dinagaan", "Barangay 27-Victory Village South", "Barangay 28-Victory Village North", "Barangay 29-Sabang", "Barangay 2-Em's Barrio South", "Barangay 30-Pigcale", "Barangay 31-Centro-Baybay", "Barangay 32-San Roque", "Barangay 33-PNR-Penaranda St.-Iraya", "Barangay 34-Oro Site-Magallanes St.", "Barangay 35-Tinago", "Barangay 36-Kapantawan", "Barangay 37-Bitano", "Barangay 38-Gogon", "Barangay 39-Bonot", "Barangay 3-Em's Barrio East", "Barangay 40-Cruzada", "Barangay 41-Bogtong", "Barangay 42-Rawis", "Barangay 43-Tamaoyan", "Barangay 44-Pawa", "Barangay 45-Dita", "Barangay 46-San Joaquin", "Barangay 47-Arimbay", "Barangay 48-Bagong Abre", "Barangay 49-Bigaa", "Barangay 4-Sagpon Poblacion", "Barangay 50-Padang", "Barangay 51-Buyuan", "Barangay 52-Matanag", "Barangay 53-Bonga", "Barangay 54-Mabinit", "Barangay 55-Estanza", "Barangay 56-Taysan", "Barangay 57-Dap-dap", "Barangay 58-Buragwis", "Barangay 59-Puro", "Barangay 5-Sagmin Poblacion", "Barangay 60-Lamba", "Barangay 61-Maslog", "Barangay 62-Homapon", "Barangay 63-Mariawa", "Barangay 64-Bagacay", "Barangay 65-Imalnod", "Barangay 66-Banquerohan", "Barangay 67-Bariis", "Barangay 68-San Francisco", "Barangay 69-Buenavista", "Barangay 6-Banadero Poblacion", "Barangay 70-Cagbacong", "Barangay 7-Bano", "Barangay 8-Bagumbayan", "Barangay 9-Pinaric"};

string LigaoBrgys[] = {"Abella", "Allang", "Amtic", "Bacong", "Bagumbayan", "Balanac", "Baligang", "Barayong", "Basag", "Batang", "Bay", "Binanowan", "Binatagan", "Bobonsuran", "Bonga", "Busac", "Busay", "Cabarian", "Calzada", "Catburawan", "Cavasi", "Culliat", "Dunao", "Francia", "Guilid", "Herrera", "Layon", "Macalidong", "Mahaba", "Malama", "Maonon", "Nabonton", "Nasisi", "Oma-oma", "Palapas", "Pandan", "Paulba", "Paulog", "Pinamaniquian", "Pinit", "Ranao-ranao", "San Vicente", "Santa Cruz", "Tagpo", "Tambo", "Tandarura", "Tastas", "Tinago", "Tinampo", "Tiongson", "Tomolin", "Tuburan", "Tula-tula Grande", "Tula-tula Pequeno", "Tupas"};

string TabacoBrgys[] = {"Agnas", "Bacolod", "Bangkilingan", "Bantayan", "Baranghawon", "Basagan", "Basud", "Bognabong", "Bombon", "Bonot", "Buang", "Buhian", "Cabagnan", "Cobo", "Comon", "Cormidal", "Divino Rostro", "Fatima", "Guinobat", "Hacienda", "Magapo", "Mariroc", "Matagbac", "Oras", "Oson", "Panal", "Pawa", "Pinagbobong", "Quinale Cabasan", "Quinastillojan", "Rawis", "Sagurong", "Salvacion", "San Antonio", "San Carlos", "San Isidro", "San Juan", "San Lorenzo", "San Ramon", "San Roque", "San Vicente", "Santo Cristo", "Sua-Igot", "Tabiguian", "Tagas", "Tayhi", "Visita"};

string IrigaBrgys[] = {"Antipolo", "Cristo Rey", "Del Rosario", "Francia", "La Anunciacion", "La Medalla", "La Purisima", "La Trinidad", "Nino Jesus", "Perpetual Help", "Sagrada", "Salvacion", "San Agustin", "San Andres", "San Antonio", "San Francisco", "San Isidro", "San Jose", "San Juan", "San Miguel", "San Nicolas", "San Pedro", "San Rafael", "San Ramon", "San Roque", "San Vicente Norte", "San Vicente Sur", "Santa Cruz Norte", "Santa Cruz Sur", "Santa Elena", "Santa Isabel", "Santa Maria", "Santa Teresita", "Santiago", "Santo Domingo", "Santo Nino"};

string NagaBrgys[] = {"Abella", "Bagumbayan Norte", "Bagumbayan Sur", "Balatas", "Calauag", "Cararayan", "Carolina", "Concepcion Grande", "Concepcion Pequena", "Dayangdang", "Del Rosario", "Dinaga", "Igualdad Interior", "Lerma", "Liboton", "Mabolo", "Pacol", "Panicuason", "Penafrancia", "Sabang", "San Felipe", "San Francisco", "San Isidro", "Santa Cruz", "Tabuco", "Tinago", "Triangulo"};

string CamarinesSurMuni[] = {"Baao", "Balatan", "Bato", "Bombon", "Buhi", "Bula", "Cabusao", "Calabanga", "Camaligan", "Canaman", "Caramoan", "Del Gallego", "Gainza", "Garchitorena", "Goa", "Lagonoy", "Libmanan", "Lupi", "Magarao", "Milaor", "Minalabac", "Nabua", "Ocampo", "Pamplona", "Pasacao", "Pili", "Presentacion", "Ragay", "Sagnay", "San Fernando", "San Jose", "Sipocot", "Siruma", "Tigaon", "Tinambac"};

string MasbateCityBrgys[] = {"Anas", "Asid", "B. Titong", "Bagumbayan", "Bantigue", "Bapor", "Batuhan", "Bayombon", "Biyong", "Bolo", "Cagay", "Cawayan Exterior", "Cawayan Interior", "Centro", "Espinosa", "F. Magallanes", "Ibingay", "Igang", "Kalipay", "Kinamaligan", "Malinta", "Mapina", "Mayngaran", "Nursery", "Pating", "Pawa", "Sinalongan", "Tugbo", "Ubongan Dacu", "Usab"};

string MasbateProvMuni[] = {"Aroroy", "Baleno", "Balud", "Batuan", "Cataingan", "Cawayan", "Claveria", "Dimasalang", "Esperanza", "Mandaon", "Milagros", "Mobo", "Monreal", "Palanas", "Pio V. Corpuz", "Placer", "San Fernando", "San Jacinto", "San Pascual", "Uson"};

string SorsogonCityBrgys[] = {"Abuyog", "Almendras-Cogon", "Balete", "Balogo (Sorsogon East District)", "Balogo (Bacon District)", "Barayong", "Basud", "Bato", "Bibincahan", "Bitan-o/Dalipay", "Bogna", "Bon-ot", "Bucalbucalan", "Buenavista", "Buenavista (Bacon District)", "Buhatan", "Bulabog", "Burabod", "Cabarbuhan", "Cabid-an", "Cambulaga", "Capuy", "Caricaran", "Del Rosario", "Gatbo", "Gimaloto", "Guinlajon", "Jamislagan", "Macabog", "Maricrum", "Marinas", "Osiao", "Pamurayan", "Pangpang", "Panlayaan", "Penafrancia", "Piot", "Poblacion", "Polvorista", "Rawis", "Rizal", "Salog", "Salvacion", "Salvacion (Bacon District)", "Sampaloc", "San Isidro", "San Isidro (Bacon District)", "San Juan (Roro)", "San Juan (Bacon District)", "San Pascual", "San Ramon", "San Roque", "San Vicente", "Santa Cruz", "Santa Lucia", "Santo Domingo", "Santo Nino", "Sawanga", "Sirangan", "Sugod", "Sulucan", "Talisay", "Ticol", "Tugos"};

string BacolodBrgys[] = {"Alangilan", "Alijis", "Banago", "Barangay 1", "Barangay 10", "Barangay 11", "Barangay 12", "Barangay 13", "Barangay 14", "Barangay 15", "Barangay 16", "Barangay 17", "Barangay 18", "Barangay 19", "Barangay 2", "Barangay 20", "Barangay 21", "Barangay 22", "Barangay 23", "Barangay 24", "Barangay 25", "Barangay 26", "Barangay 27", "Barangay 28", "Barangay 29", "Barangay 3", "Barangay 30", "Barangay 31", "Barangay 32", "Barangay 33", "Barangay 34", "Barangay 35", "Barangay 36", "Barangay 37", "Barangay 38", "Barangay 39", "Barangay 4", "Barangay 40", "Barangay 41", "Barangay 5", "Barangay 6", "Barangay 7", "Barangay 8", "Barangay 9", "Bata", "Cabug", "Estefania", "Felisa", "Granada", "Handumanan", "Mandalagan", "Mansilingan", "Montevista", "Pahanocoy", "Punta Taytay", "Singcang-Airport", "Sum-ag", "Taculing", "Tangub", "Villamonte", "Vista Alegre"};

string RoxasCityBrgys[] = {"Adlawan", "Bago", "Balijuagan", "Banica", "Barra", "Bato", "Baybay", "Bolo", "Cabugao", "Cagay", "Cogon", "Culajao", "Culasi", "Dayao", "Dinginan", "Dumolog", "Gabu-an", "Inzo Arnaldo Village", "Jumaguicjic", "Lanot", "Lawa-an", "Libas", "Liong", "Loctugan", "Lonoy", "Milibili", "Mongpong", "Olotayan", "Poblacion I", "Poblacion II", "Poblacion III", "Poblacion IV", "Poblacion IX", "Poblacion V", "Poblacion VI", "Poblacion VII", "Poblacion VIII", "Poblacion X", "Poblacion XI", "Punta Cogon", "Punta Tabuc", "San Jose", "Sibaguan", "Talon", "Tanque", "Tanza", "Tiza"};

string IloiloCityBrgys[] = {"Abeto Mirasol Taft South", "Aguinaldo", "Airport", "Alalasan Lapuz", "Arguelles", "Arsenal Aduana", "Bakhaw", "Balabago", "Balantang", "Baldoza", "Bantud", "Banuyao", "Baybay Tanza", "Benedicto", "Bito-on", "Bolilao", "Bonifacio", "Bonifacio Tanza", "Buhang", "Buhang Taft North", "Buntatala", "Burgos-Mabini-Plaza", "Caingin", "Calahunan", "Calaparan", "Calubihan", "Calumpang", "Camalig", "Cochero", "Compania", "Concepcion-Montes", "Cuartero", "Cubay", "Danao", "Delgado-Jalandoni-Bagumbayan", "Democracia", "Desamparados", "Divinagracia", "Don Esteban-Lapuz", "Dulonan", "Dungon", "Dungon A", "Dungon B", "East Baluarte", "East Timawa", "Edganzon", "El 98 Castilla", "Fajardo", "Flores", "General Hughes-Montes", "Gloria", "Gustilo", "Guzman-Jesena", "Habog-habog Salvacion", "Hibao-an Norte", "Hibao-an Sur", "Hinactacan", "Hipodromo", "Inday", "Infante", "Ingore", "Jalandoni Estate-Lapuz", "Jalandoni-Wilson", "Javellana", "Jereos", "Kahirupan", "Kasingkasing", "Katilingban", "Kauswagan", "Laguda", "Lanit", "Lapuz Norte", "Lapuz Sur", "Legaspi dela Rama", "Liberation", "Libertad, Santa Isabel", "Libertad-Lapuz", "Loboc-Lapuz", "Lopez Jaena", "Lopez Jaena Norte", "Lopez Jaena Sur", "Luna (Jaro)", "Luna (La Paz)", "M. V. Hechanova", "Mabolo-Delgado", "Macarthur", "Magdalo", "Magsaysay", "Magsaysay Village", "Malipayon-Delgado", "Mansaya-Lapuz", "Marcelo H. del Pilar", "Maria Clara", "Maria Cristina", "Mohon", "Molo Boulevard", "Monica Blumentritt", "Montinola", "Muelle Loney-Montes", "Nabitasan", "Navais", "Nonoy", "North Avancena", "North Baluarte", "North Fundidor", "North San Jose", "Obrero-Lapuz", "Onate de Leon", "Ortiz", "Osmena", "Our Lady of Fatima", "Our Lady of Lourdes", "Pale Benedicto Rizal", "PHHC Block 17", "PHHC Block 22 NHA", "Poblacion Molo", "President Roxas", "Progreso-Lapuz", "Punong-Lapuz", "Quezon", "Quintin Salas", "Railway", "Rima-Rizal", "Rizal", "Rizal Estanzuela", "Rizal Ibarra", "Rizal Palapala I", "Rizal Palapala II", "Roxas Village", "Sambag", "Sampaguita", "San Agustin", "San Antonio", "San Felix", "San Isidro (Jaro)", "San Isidro (La Paz)", "San Jose (Jaro)", "San Jose (Arevalo)", "San Jose (City Proper)", "San Juan", "San Nicolas", "San Pedro (Molo)", "San Pedro (Jaro)", "San Rafael", "San Roque", "San Vicente", "Santa Cruz", "Santa Filomena", "Santa Rosa", "Santo Domingo", "Santo Nino Norte", "Santo Nino Sur", "Santo Rosario-Duran", "Seminario", "Simon Ledesma", "Sinikway", "So-oc", "South Baluarte", "South Fundidor", "South San Jose", "Taal", "Tabuc Suba (Jaro)", "Tabuc Suba (La Paz)", "Tabucan", "Tacas", "Tagbac", "Tanza-Esperanza", "Tap-oc", "Taytay Zone II", "Ticud", "Timawa Tanza I", "Timawa Tanza II", "Ungka", "Veterans Village", "Villa Anita", "West Habog-habog", "West Timawa", "Yulo Drive", "Yulo-Arroyo", "Zamora-Melliza"};

string PassiBrgys[] = {"Agdahon", "Agdayao", "Aglalana", "Agtabo", "Agtambo", "Alimono", "Arac", "Ayuyan", "Bacuranan", "Bagacay", "Batu", "Bayan", "Bitaogan", "Buenavista", "Buyo", "Cabunga", "Cadilang", "Cairohan", "Dalicanan", "Gegachac", "Gemat-y", "Gemumua-agahon", "Gines Viejo", "Imbang Grande", "Jaguimitan", "Libo-o", "Maasin", "Magdungao", "Malag-it Grande", "Malag-it Pequeno", "Mambiranan Grande", "Mambiranan Pequeno", "Man-it", "Mantulang", "Mulapula", "Nueva Union", "Pagaypay", "Pangi", "Poblacion Ilawod", "Poblacion Ilaya", "Punong", "Quinagaringan Grande", "Quinagaringan Pequeno", "Sablogon", "Salngan", "Santo Tomas", "Sarapan", "Tagubong", "Talongonan", "Tubod", "Tuburan"};

string IloiloProvMuni[] = {"Ajuy", "Alimodian", "Anilao", "Badiangan", "Balasan", "Banate", "Barotac Nuevo", "Barotac Viejo", "Batad", "Bingawan", "Cabatuan", "Calinog", "Carles", "Concepcion", "Dingle", "Duenas", "Dumangas", "Estancia", "Guimbal", "Igbaras", "Janiuay", "Lambunao", "Leganes", "Lemery", "Leon", "Maasin", "Miagao", "Mina", "New Lucena", "Oton", "Pavia", "Pototan", "San Dionisio", "San Enrique", "San Joaquin", "San Miguel", "San Rafael", "Santa Barbara", "Sara", "Tigbauan", "Tubungan", "Zarraga"};

string BagoBrgys[] = {"Abuanan", "Alianza", "Atipuluan", "Bacong-Montilla", "Bagroy", "Balingasag", "Binubuhan", "Busay", "Calumangan", "Caridad", "Dulao", "Ilijan", "Jorge L. Araneta", "Lag-asan", "Ma-ao Barrio", "Mailum", "Malingin", "Napoles", "Pacol", "Poblacion", "Sagasa", "Sampinit", "Tabunan", "Taloc"};

string CadizBrgys[] = {"Andres Bonifacio", "Banquerohan", "Barangay 1 Poblacion", "Barangay 2 Poblacion", "Barangay 3 Poblacion", "Barangay 4 Poblacion", "Barangay 5 Poblacion", "Barangay 6 Poblacion", "Burgos", "Cabahug", "Cadiz Viejo", "Caduha-an", "Celestino Villacin", "Daga", "Jerusalem", "Luna", "Mabini", "Magsaysay", "Sicaba", "Tiglawigan", "Tinampa-an", "V. F. Gustilo"};

string EscalanteBrgys[] = {"Alimango", "Balintawak", "Binaguiohan", "Buenavista", "Cervantes", "Dian-ay", "Hacienda Fe", "Japitan", "Jonobjonob", "Langub", "Libertad", "Mabini", "Magsaysay", "Malasibog", "Old Poblacion", "Paitan", "Pinapugasan", "Rizal", "Tamlang", "Udtongan", "Washington"};

string HimamaylanBrgys[] = {"Aguisan", "Barangay I", "Barangay II", "Barangay III", "Barangay IV", "Buenavista", "Cabadiangan", "Cabanbanan", "Carabalan", "Caradio-an", "Libacao", "Mahalang", "Mambagaton", "Nabali-an", "San Antonio", "Sara-et", "Su-ay", "Talaban", "To-oy"};

string KabankalanBrgys[] = {"Bantayan", "Barangay 1", "Barangay 2", "Barangay 3", "Barangay 4", "Barangay 5", "Barangay 6", "Barangay 7", "Barangay 8", "Barangay 9", "Binicuil", "Camansi", "Camingawan", "Camugao", "Carol-an", "Daan Banua", "Hilamonan", "Inapoy", "Linao", "Locotan", "Magballo", "Oringao", "Orong", "Pinaguinpinan", "Salong", "Tabugon", "Tagoc", "Tagukon", "Talubangi", "Tampalon", "Tan-awan", "Tapi"};

string LaCarlotaBrgys[] = {"Ara-al", "Ayungon", "Balabag", "Barangay I", "Barangay II", "Barangay III", "Batuan", "Cubay", "Haguimit", "La Granja", "Nagasi", "Roberto S. Benedicto", "San Miguel", "Yubo"};

string SagayBrgys[] = {"Andres Bonifacio", "Bato", "Baviera", "Bulanon", "Campo Himoga-an", "Campo Santiago", "Colonia Divina", "Fabrica", "General Luna", "Himoga-an Baybay", "Lopez Jaena", "Makiling", "Malubon", "Molocaboc", "Old Sagay", "Paraiso", "Plaridel", "Poblacion I", "Poblacion II", "Puey", "Rafaela Barrera", "Rizal", "Taba-ao", "Tadlong", "Vito"};

string SanCarlosNegrosBrgys[] = {"Bagonbon", "Barangay I", "Barangay II", "Barangay III", "Barangay IV", "Barangay V", "Barangay VI", "Buluangan", "Codcod", "Ermita", "Guadalupe", "Nataban", "Palampas", "Prosperidad", "Punao", "Quezon", "Rizal", "San Juan"};

string SilayBrgys[] = {"Bagtic", "Balaring", "Barangay I", "Barangay II", "Barangay III", "Barangay IV", "Barangay V", "Barangay VI Poblacion", "Eustaquio Lopez", "Guimbala-on", "Guinhalaran", "Kapitan Ramon", "Lantad", "Mambulac", "Patag", "Rizal"};

string SipalayBrgys[] = {"Barangay 1", "Barangay 2", "Barangay 3", "Barangay 4", "Barangay 5", "Cabadiangan", "Camindangan", "Canturay", "Cartagena", "Cayhagan", "Gil Montilla", "Mambaroto", "Manlucahoc", "Maricalum", "Nabulao", "Nauhang", "San Jose"};

string TalisayBrgys[] = {"Bubog", "Cabatangan", "Concepcion", "Dos Hermanas", "Efigenio Lizares", "Katilingban", "Matab-ang", "San Fernando", "Zone 1", "Zone 10", "Zone 11", "Zone 12", "Zone 12-A", "Zone 14", "Zone 14-A", "Zone 14-B", "Zone 15", "Zone 16", "Zone 2", "Zone 3", "Zone 4", "Zone 4-A", "Zone 5", "Zone 6", "Zone 7", "Zone 8", "Zone 9"};

string VictoriasBrgys[] = {"Barangay I", "Barangay II", "Barangay III", "Barangay IV", "Barangay IX", "Barangay V", "Barangay VI", "Barangay VI-A", "Barangay VII", "Barangay VIII", "Barangay X", "Barangay XI", "Barangay XII", "Barangay XIII", "Barangay XIV", "Barangay XIX", "Barangay XIX-A", "Barangay XV", "Barangay XV-A", "Barangay XVI", "Barangay XVI-A", "Barangay XVII", "Barangay XVIII", "Barangay XVIII-A", "Barangay XX", "Barangay XXI"};

string BoholMuni[] = {"Alburquerque", "Alicia", "Anda", "Antequera", "Baclayon", "Balilihan", "Batuan", "Bien Unido", "Bilar", "Buenavista", "Calape", "Candijay", "Carmen", "Catigbian", "Clarin", "Corella", "Cortes", "Dagohoy", "Danao", "Dauis", "Dimiao", "Duero", "Garcia Hernandez", "Getafe", "Guindulman", "Inabanga", "Jagna", "Lila", "Loay", "Loboc", "Loon", "Mabini", "Maribojoc", "Panglao", "Pilar", "President Carlos P. Garcia", "Sagbayan", "San Isidro", "San Miguel", "Sevilla", "Sierra Bullones", "Sikatuna", "Talibon", "Trinidad", "Tubigon", "Ubay", "Valencia"};

string TagbilaranBrgys[] = {"Bool", "Booy", "Cabawan", "Cogon", "Dampas", "Dao", "Manga", "Mansasa", "Poblacion I", "Poblacion II", "Poblacion III", "San Isidro", "Taloto", "Tiptip", "Ubujan"};

string BogoBrgys[] = {"Anonang Norte", "Anonang Sur", "Banban", "Binabag", "Bungtod", "Carbon", "Cayang", "Cogon", "Dakit", "Don Pedro Rodriguez", "Gairan", "Guadalupe", "La Paz", "La Purisima Concepcion", "Libertad", "Lourdes", "Malingin", "Marangog", "Nailon", "Odlot", "Pandan", "Polambato", "Sambag", "San Vicente", "Santo Nino", "Santo Rosario", "Siocon", "Sudlonon", "Taytayan"};

string CarcarBrgys[] = {"Bolinawan", "Buenavista", "Calidngan", "Can-asujan", "Guadalupe", "Liburon", "Napo", "Ocana", "Perrelos", "Poblacion I", "Poblacion II", "Poblacion III", "Tuyom", "Valencia", "Valladolid"};

string CebuCityBrgys[] = {"Adlaon", "Agsungot", "Apas", "Babag", "Bacayan", "Banilad", "Basak Pardo", "Basak San Nicolas", "Binaliw", "Bonbon", "Budla-an", "Buhisan", "Bulacao", "Buot-Taup Pardo", "Busay", "Calamba", "Cambinocot", "Camputhaw", "Capitol Site", "Carreta", "Central", "Cogon Pardo", "Cogon Ramos", "Day-as", "Duljo", "Ermita", "Guadalupe", "Guba", "Hippodromo", "Inayawan", "Kalubihan", "Kalunasan", "Kamagayan", "Kasambagan", "Kinasang-an Pardo", "Labangon", "Lahug", "Lorega", "Lusaran", "Luz", "Mabini", "Mabolo", "Malubog", "Mambaling", "Pahina Central", "Pahina San Nicolas", "Pamutan", "Pardo", "Pari-an", "Paril", "Pasil", "Pit-os", "Pulangbato", "Pung-ol-Sibugay", "Punta Princesa", "Quiot Pardo", "Sambag I", "Sambag II", "San Antonio", "San Jose", "San Nicolas Central", "San Roque", "Santa Cruz", "Sapangdaku", "Sawang Calero", "Sinsin", "Sirao", "Suba Poblacion", "Sudlon I", "Sudlon II", "T. Padilla", "Tabunan", "Tagbao", "Talamban", "Taptap", "Tejero", "Tinago", "Tisa", "To-ong Pardo", "Zapatera"};

string DanaoBrgys[] = {"Baliang", "Bayabas", "Binaliw", "Cabungahan", "Cagat-Lamac", "Cahumayan", "Cambanay", "Cambubho", "Cogon-Cruz", "Danasan", "Dungga", "Dunggoan", "Guinacot", "Guinsay", "Ibo", "Langosig", "Lawaan", "Licos", "Looc", "Magtagobtob", "Malapoc", "Manlayag", "Mantija", "Masaba", "Maslog", "Nangka", "Oguis", "Pili", "Poblacion", "Quisol", "Sabang", "Sacsac", "Sandayong Norte", "Sandayong Sur", "Santa Rosa", "Santican", "Sibacan", "Suba", "Taboc", "Taytay", "Togonon", "Tuburan Sur"};

string LapuLapuBrgys[] = {"Agus", "Babag", "Bankal", "Baring", "Basak", "Buaya", "Calawisan", "Canjulao", "Caubian", "Cawhagan", "Caw-oy", "Gun-ob", "Ibo", "Looc", "Mactan", "Maribago", "Marigondon", "Pajac", "Pajo", "Pangan-an", "Poblacion", "Punta Engano", "Pusok", "Sabang", "San Vicente", "Santa Rosa", "Subabasbas", "Talima", "Tingo", "Tungasan"};

string MandaueBrgys[] = {"Alang-alang", "Bakilid", "Banilad", "Basak", "Cabancalan", "Cambaro", "Canduman", "Casili", "Casuntingan", "Centro", "Cubacub", "Guizo", "Ibabao-Estancia", "Jagobiao", "Labogon", "Looc", "Maguikay", "Mantuyong", "Opao", "Pagsabungan", "Pakna-an", "Subangdaku", "Tabok", "Tawason", "Tingub", "Tipolo", "Umapad"};

string NagaCebuBrgys[] = {"Alfaco", "Bairan", "Balirong", "Cabungahan", "Cantao-an", "Central Poblacion", "Cogon", "Colon", "East Poblacion", "Inayagan", "Inoburan", "Jaguimit", "Lanas", "Langtad", "Lutac", "Mainit", "Mayana", "Naalad", "North Poblacion", "Pangdan", "Patag", "South Poblacion", "Tagjaguimit", "Tangke", "Tinaan", "Tuyan", "Uling", "West Poblacion"};

string TalisayCebuBrgys[] = {"Biasong", "Bulacao", "Cadulawan", "Camp IV", "Cansojong", "Dumlog", "Jaclupan", "Lagtang", "Lawaan I", "Lawaan II", "Lawaan III", "Linao", "Maghaway", "Manipis", "Mohon", "Poblacion", "Pooc", "San Isidro", "San Roque", "Tabunoc", "Tangke", "Tapul"};

string ToledoBrgys[] = {"Awihao", "Bagakay", "Bato", "Biga", "Bulongan", "Bunga", "Cabitoonan", "Calongcalong", "Cambang-ug", "Camp 8", "Canlumampao", "Cantabaco", "Capitan Claudio", "Carmen", "Daanglungsod", "Don Andres Soriano", "Dumlog", "Gen. Climaco", "Ibo", "Ilihan", "Juan Climaco, Sr.", "Landahan", "Loay", "Luray II", "Matab-ang", "Media Once", "Pangamihan", "Poblacion", "Poog", "Putingbato", "Sagay", "Sam-ang", "Sangi", "Santo Nino", "Subayon", "Talavera", "Tubod", "Tungkay"};

string CebuProvMuni[] = {"Alcantara", "Alcoy", "Alegria", "Aloguinsan", "Argao", "Asturias", "Badian", "Balamban", "Bantayan", "Barili", "Boljoon", "Borbon", "Carmen", "Catmon", "Compostela", "Consolacion", "Cordova", "Daanbantayan", "Dalaguete", "Dumanjug", "Ginatilan", "Liloan", "Madridejos", "Malabuyoc", "Medellin", "Minglanilla", "Moalboal", "Oslob", "Pilar", "Pinamungajan", "Poro", "Ronda", "Samboan", "San Fernando", "San Francisco", "San Remigio", "Santa Fe", "Santander", "Sibonga", "Sogod", "Tabogon", "Tabuelan", "Talisay", "Toledo", "Tuburan", "Tudela"};

string BaisBrgys[] = {"Barangay I", "Barangay II", "Basak", "Binohon", "Cabanlutan", "Calasga-an", "Cambagahan", "Cambaguio", "Cambanjao", "Cambuilao", "Canlargo", "Capinahan", "Consolacion", "Dansulan", "Hangyad", "Katacgahan", "La Paz", "Lonoy", "Lo-oc", "Mabunao", "Manlipac", "Mansangaban", "Okiot", "Olympia", "Panala-an", "Panam-angan", "Rosario", "Sab-ahan", "San Isidro", "Tagpo", "Talungon", "Tamisu", "Tamogong", "Tangculogan", "Valencia"};

string BayawanBrgys[] = {"Ali-is", "Banaybanay", "Banga", "Boyco", "Bugay", "Cansumalig", "Dawis", "Kalamtukan", "Kalumboyan", "Malabugas", "Mandu-ao", "Maninihon", "Minaba", "Nangka", "Narra", "Pagatban", "Poblacion", "San Isidro", "San Jose", "San Miguel", "San Roque", "Suba", "Tabuan", "Tayawan", "Tinago", "Ubos", "Villareal", "Villasol"};

string CanlaonBrgys[] = {"Bayog", "Binalbagan", "Bucalan", "Budlasan", "Linothangan", "Lumapao", "Mabigo", "Malaiba", "Masulog", "Ninoy Aquino", "Panubigan", "Pula"};

string DumagueteBrgys[] = {"Bagacay", "Bajumpandan", "Balugo", "Banilad", "Bantayan", "Batinguel", "Bunao", "Cadawinonan", "Calindagan", "Camanjac", "Candau-ay", "Cantil-e", "Daro", "Junob", "Looc", "Mangnao-Canal", "Motong", "Piapi", "Poblacion No. 1", "Poblacion No. 2", "Poblacion No. 3", "Poblacion No. 4", "Poblacion No. 5", "Poblacion No. 6", "Poblacion No. 7", "Poblacion No. 8", "Pulantubig", "Tabuctubig", "Taclobo"};

string GuihulnganBrgys[] = {"Bakid", "Balogo", "Banwaque", "Basak", "Binobohan", "Buenavista", "Bulado", "Calamba", "Calupa-an", "Hibaiyo", "Hilaitan", "Hinakpan", "Humayhumay", "Imelda", "Kagawasan", "Linantuyan", "Luz", "Mabunga", "Magsaysay", "Malusay", "Maniak", "Mckinley", "Nagsaha", "Padre Zamora", "Plagatasanon", "Planas", "Poblacion", "Sandayao", "Tacpao", "Tinayunan Beach", "Tinayunan Hill", "Trinidad", "Villegas"};

string TanjayBrgys[] = {"Azagra", "Bahi-an", "Luca", "Manipis", "Novallas", "Obogon", "Pal-ew", "Poblacion I", "Poblacion II", "Poblacion III", "Poblacion IV", "Poblacion IX", "Poblacion V", "Poblacion VI", "Poblacion VII", "Poblacion VIII", "Polo", "San Isidro", "San Jose", "San Miguel", "Santa Cruz Nuevo", "Santa Cruz Viejo", "Santo Nino", "Tugas"};

string BoronganBrgys[] = {"Alang-alang", "Amantacop", "Ando", "Balacdas", "Balud", "Banuyo", "Baras", "Bato", "Bayobay", "Benowangan", "Bugas", "Cabalagnan", "Cabong", "Cagbonga", "Calico-an", "Calingatngan", "Camada", "Campesao", "Can-abong", "Can-aga", "Canjaway", "Canlaray", "Canyopay", "Divinubo", "Hebacong", "Hindang", "Lalawigan", "Libuton", "Locso-on", "Maybacong", "Maypangdan", "Pepelitan", "Pinanag-an", "Punta Maria", "Purok A", "Purok B", "Purok C", "Purok D1", "Purok D2", "Purok E", "Purok F", "Purok G", "Purok H", "Sabang North", "Sabang South", "San Andres", "San Gabriel", "San Gregorio", "San Jose", "San Mateo", "San Pablo", "San Saturnino", "Santa Fe", "Siha", "Sohutan", "Songco", "Suribao", "Surok", "Taboc", "Tabunan", "Tamoso"};

string EasternSamarMuni[] = {"Arteche", "Balangiga", "Balangkayan", "Can-avid", "Dolores", "General MacArthur", "Giporlos", "Guiuan", "Hernani", "Jipapad", "Lawaan", "Llorente", "Maslog", "Maydolong", "Mercedes", "Oras", "Quinapondan", "Salcedo", "San Julian", "San Policarpo", "Sulat", "Taft"};

string BaybayBrgys[] = {"Altavista", "Ambacan", "Amguhan", "Ampihanon", "Balao", "Banahao", "Biasong", "Bidlinan", "Bitanhuan", "Bubon", "Buenavista", "Bunga", "Butigan", "Candadam", "Caridad", "Ciabo", "Cogon", "Ga-as", "Gabas", "Gakat", "Guadalupe", "Gubang", "Hibunawan", "Higuloan", "Hilapnitan", "Hipusngo", "Igang", "Imelda", "Jaena", "Kabalasan", "Kabatuan", "Kabungaan", "Kagumay", "Kambonggan", "Kan-ipa", "Kansungka", "Kantagnos", "Kilim", "Lintaon", "Maganhan", "Mahayahay", "Mailhi", "Maitum", "Makinhas", "Mapgap", "Marcos", "Maslug", "Matam-is", "Maybog", "Maypatag", "Monte Verde", "Monterico", "Palhi", "Pangasungan", "Pansagan", "Patag", "Plaridel", "Poblacion Zone 1", "Poblacion Zone 10", "Poblacion Zone 11", "Poblacion Zone 12", "Poblacion Zone 13", "Poblacion Zone 14", "Poblacion Zone 15", "Poblacion Zone 16", "Poblacion Zone 17", "Poblacion Zone 18", "Poblacion Zone 19", "Poblacion Zone 2", "Poblacion Zone 20", "Poblacion Zone 21", "Poblacion Zone 22", "Poblacion Zone 23", "Poblacion Zone 3", "Poblacion Zone 4", "Poblacion Zone 5", "Poblacion Zone 6", "Poblacion Zone 7", "Poblacion Zone 8", "Poblacion Zone 9", "Pomponan", "Punta", "Sabang", "San Agustin", "San Isidro", "San Juan", "Santa Cruz", "Santo Rosario", "Sapa", "Villa Mag-aso", "Villa Solidaridad", "Zacarito"};

string OrmocBrgys[] = {"Airport", "Alegria", "Alta Vista", "Bagong", "Bagong Buhay", "Bantigue", "Barangay 1", "Barangay 10", "Barangay 11", "Barangay 12", "Barangay 13", "Barangay 14", "Barangay 15", "Barangay 16", "Barangay 17", "Barangay 18", "Barangay 19", "Barangay 2", "Barangay 20", "Barangay 21", "Barangay 22", "Barangay 23", "Barangay 24", "Barangay 25", "Barangay 26", "Barangay 27", "Barangay 28", "Barangay 29", "Barangay 3", "Barangay 4", "Barangay 5", "Barangay 6", "Barangay 7", "Barangay 8", "Barangay 9", "Batuan", "Bayog", "Biliboy", "Borok", "Cabaon-an", "Cabintan", "Cabulihan", "Cagbuhangin", "Camp Downes", "Can-adieng", "Can-untog", "Catmon", "Cogon Combado", "Concepcion", "Curva", "Danao", "Danhug", "Dayhagan", "Dolores", "Domonar", "Don Felipe Larrazabal", "Don Potenciano Larrazabal", "Dona Feliza Z. Mejia", "Donghol", "Esperanza", "Gaas", "Green Valley", "Guintigui-an", "Hibunawon", "Hugpa", "Ipil", "Juaton", "Kadaohan", "Labrador", "Lao", "Leondoni", "Libertad", "Liberty", "Licuma", "Liloan", "Linao", "Luna", "Mabato", "Mabini", "Macabug", "Magaswi", "Mahayag", "Mahayahay", "Manlilinao", "Margen", "Mas-in", "Matica-a", "Milagro", "Monterico", "Nasunogan", "Naungan", "Nueva Sociedad", "Nueva Vista", "Patag", "Punta", "Quezon, Jr.", "Rufina M. Tan", "Sabang Bao", "Salvacion", "San Antonio", "San Isidro", "San Jose", "San Juan", "San Pablo", "San Vicente", "Santo Nino", "Sumangga", "Tambulilid", "Tongonan", "Valencia"};

string LeyteProvMuni[] = {"Abuyog", "Alangalang", "Albuera", "Babatngon", "Barugo", "Bato", "Burauen", "Calubian", "Capoocan", "Carigara", "Dagami", "Dulag", "Hilongos", "Hindang", "Inopacan", "Isabel", "Jaro", "Javier", "Julita", "Kananga", "La Paz", "Leyte", "MacArthur", "Mahaplag", "Matag-ob", "Matalom", "Mayorga", "Merida", "Palo", "Palompon", "Pastrana", "San Isidro", "San Miguel", "Santa Fe", "Tabango", "Tabontabon", "Tanauan", "Tolosa", "Tungasan", "Villaba"};

string NorthernSamarMuni[] = {"Allen", "Biri", "Bobon", "Capul", "Catarman - Capital of Northern Samar", "Catubig", "Gamay", "Laoang", "Lapinig", "Las Navas", "Lavezares", "Lope de Vega", "Mapanas", "Mondragon", "Palapag", "Pambujan", "Rosario", "San Antonio", "San Isidro", "San Jose", "San Roque", "San Vicente", "Silvino Lobos", "Victoria"};

string SamarMuni[] = {"Almagro", "Basey", "Calbiga", "Daram", "Gandara", "Hinabangan", "Jiabong", "Marabut", "Matuguinao", "Motiong", "Pagsanghan", "Paranas", "Pinabacdao", "San Jorge", "San Jose de Buan", "San Sebastian", "Santa Margarita", "Santa Rita", "Santo Nino", "Tagapul-an", "Talalora", "Tarangnan", "Villareal", "Zumarraga"};

string CalbayogBrgys[] = {"Acedillo", "Aguit-itan", "Alibaba", "Amampacang", "Anislag", "Awang East", "Awang West", "Ba-ay", "Bagacay", "Bagong Lipunan", "Baja", "Balud", "Bante", "Bantian", "Basud", "Bayo", "Begaho", "Binaliw", "Bontay", "Buenavista", "Bugtong", "Cabacungan", "Cabatuan", "Cabicahan", "Cabugawan", "Cacaransan", "Cag-anahaw", "Cag-anibong", "Cagbanayacao", "Cagbayang", "Cagbilwang", "Cagboborac", "Caglanipao Sur", "Cagmanipes Norte", "Cagmanipes Sur", "Cagnipa", "Cag-olango", "Cagsalaosao", "Cahumpan", "Calocnayan", "Cangomaod", "Canhumadac", "Capacuhan", "Capoocan", "Carayman", "Carmen", "Catabunan", "Caybago", "Central", "Cogon", "Dagum", "Danao I", "Danao II", "Dawo", "De Victoria", "Dinabongan", "Dinagan", "Dinawacan", "Esperanza", "Gabay", "Gadgaran", "Gasdo", "Geraga-an", "Guimbaoyan Norte", "Guimbaoyan Sur", "Guin-on", "Hamorawon", "Helino", "Hibabngan", "Hibatang", "Higasaan", "Himalandrog", "Hugon Rosales", "Jacinto", "Jimautan", "Jose A. Rono", "Kalilihan", "Kilikili", "La Paz", "Langoyon", "Lapaan", "Libertad", "Limarayon", "Longsob", "Lonoy", "Looc", "Mabini I", "Mabini II", "Macatingog", "Mag-ubay", "Maguino-o", "Malaga", "Malajog", "Malayog", "Malopalo", "Mancol", "Mantaong", "Manuel Barral, Sr.", "Marcatubig", "Matobato", "Mawacat", "Maybog", "Maysalong", "Migara", "Nabang", "Naga", "Naguma", "Navarro", "Nijaga", "Oboob", "Obrero", "Olera", "Oquendo", "Osmena", "Pagbalican", "Palanas", "Palanogan", "Panlayahan", "Panonongan", "Panoypoy", "Patong", "Payahan", "Pena", "Pilar", "Pinamorotan", "Quezon", "Rawis", "Rizal I", "Rizal II", "Roxas I", "Roxas II", "Saljag", "Salvacion", "San Antonio", "San Isidro", "San Joaquin", "San Jose", "San Policarpio", "San Rufino", "Saputan", "Sigo", "Sinantan", "Sinidman Occidental", "Sinidman Oriental", "Tabawan", "Talahiban", "Tanval", "Tapa-e", "Tarabucan", "Tigbe", "Tinambacan Norte", "Tinambacan Sur", "Tinaplacan", "Tomaliguez", "Trinidad", "Victory", "Villahermosa"};

string CatbaloganBrgys[] = {"Albalate", "Bagongon", "Bangon", "Basiao", "Buluan", "Bunuanan", "Cabugawan", "Cagudalo", "Cagusipan", "Cagutian", "Cagutsan", "Canhawan Gote", "Canlapwas", "Cawayan", "Cinco", "Darahuway Daco", "Darahuway Gote", "Estaka", "Guindaponan", "Guinsorongan", "Ibol", "Iguid", "Lagundi", "Libas", "Lobo", "Manguehay", "Maulong", "Mercedes", "Mombon", "Munoz", "New Mahayag", "Old Mahayag", "Palanyogon", "Pangdan", "Payao", "Poblacion 1", "Poblacion 10", "Poblacion 11", "Poblacion 12", "Poblacion 13", "Poblacion 2", "Poblacion 3", "Poblacion 4", "Poblacion 5", "Poblacion 6", "Poblacion 7", "Poblacion 8", "Poblacion 9", "Pupua", "Rama", "San Andres", "San Pablo", "San Roque", "San Vicente", "Silanga", "Socorro", "Totoringon"};

string MaasinBrgys[] = {"Abgao", "Acasia", "Asuncion", "Bactul I", "Bactul II", "Badiang", "Bagtican", "Basak", "Bato I", "Bato II", "Batuan", "Baugo", "Bilibol", "Bogo", "Cabadiangan", "Cabulihan", "Cagnituan", "Cambooc", "Cansirong", "Canturing", "Canyuom", "Combado", "Dongon", "Gawisan", "Guadalupe", "Hanginan", "Hantag", "Hinapu Daku", "Hinapu Gamay", "Ibarra", "Isagani", "Laboon", "Lanao", "Libertad", "Libhu", "Lib-og", "Lonoy", "Lunas", "Mahayahay", "Malapoc Norte", "Malapoc Sur", "Mambajao", "Manhilo", "Mantahan", "Maria Clara", "Matin-ao", "Nasaug", "Nati", "Nonok Norte", "Nonok Sur", "Panan-awan", "Pansaan", "Pasay", "Pinascohan", "Rizal", "San Agustin", "San Isidro", "San Jose", "San Rafael", "Santa Cruz", "Santa Rosa", "Santo Nino", "Santo Rosario", "Soro-soro", "Tagnipa", "Tam-is", "Tawid", "Tigbawan", "Tomoy-tomoy", "Tunga-tunga"};

string SouthernLeyteMuni[] = {"Anahawan", "Bontoc", "Hinunangan", "Hinundayan", "Libagon", "Liloan", "Limasawa", "Macrohon", "Malitbog", "Padre Burgos", "Pintuyan", "Saint Bernard", "San Francisco", "San Juan", "San Ricardo", "Silago", "Sogod", "Tomas Oppus"};

string TaclobanBrgys[] = {"Barangay 100", "Barangay 101", "Barangay 102", "Barangay 103", "Barangay 103-A", "Barangay 104", "Barangay 105", "Barangay 106", "Barangay 107", "Barangay 108", "Barangay 109", "Barangay 109-A", "Barangay 110", "Barangay 12", "Barangay 13", "Barangay 14", "Barangay 15", "Barangay 16", "Barangay 17", "Barangay 18", "Barangay 19", "Barangay 2", "Barangay 20", "Barangay 21", "Barangay 21-A", "Barangay 22", "Barangay 23", "Barangay 23-A", "Barangay 24", "Barangay 25", "Barangay 26", "Barangay 27", "Barangay 28", "Barangay 29", "Barangay 30", "Barangay 31", "Barangay 32", "Barangay 33", "Barangay 34", "Barangay 35", "Barangay 35-A", "Barangay 36", "Barangay 36-A", "Barangay 37", "Barangay 37-A", "Barangay 38", "Barangay 39", "Barangay 40", "Barangay 41", "Barangay 42", "Barangay 42-A", "Barangay 43", "Barangay 43-A", "Barangay 43-B", "Barangay 44", "Barangay 44-A", "Barangay 45", "Barangay 46", "Barangay 47", "Barangay 48", "Barangay 48-A", "Barangay 48-B", "Barangay 49", "Barangay 5", "Barangay 50", "Barangay 50-A", "Barangay 50-B", "Barangay 51", "Barangay 51-A", "Barangay 52", "Barangay 53", "Barangay 54", "Barangay 54-A", "Barangay 56", "Barangay 56-A", "Barangay 57", "Barangay 58", "Barangay 59", "Barangay 59-A", "Barangay 59-B", "Barangay 5-A", "Barangay 6", "Barangay 60", "Barangay 60-A", "Barangay 61", "Barangay 62", "Barangay 62-A", "Barangay 62-B", "Barangay 63", "Barangay 64", "Barangay 65", "Barangay 66", "Barangay 66-A", "Barangay 67", "Barangay 68", "Barangay 69", "Barangay 6-A", "Barangay 7", "Barangay 70", "Barangay 71", "Barangay 72", "Barangay 73", "Barangay 74", "Barangay 75", "Barangay 76", "Barangay 77", "Barangay 78", "Barangay 79", "Barangay 8", "Barangay 80", "Barangay 81", "Barangay 82", "Barangay 83", "Barangay 83-A", "Barangay 83-B", "Barangay 83-C", "Barangay 84", "Barangay 85", "Barangay 86", "Barangay 87", "Barangay 88", "Barangay 89", "Barangay 8-A", "Barangay 90", "Barangay 91", "Barangay 92", "Barangay 93", "Barangay 94", "Barangay 94-A", "Barangay 95", "Barangay 95-A", "Barangay 96", "Barangay 97", "Barangay 98", "Barangay 99", "El Reposo", "Libertad", "Nula-tula"};

string DapitanBrgys[] = {"Aliguay", "Antipolo", "Aseniero", "Ba-ao", "Bagting", "Banbanan", "Banonong", "Barcelona", "Baylimango", "Burgos", "Canlucani", "Carang", "Cawa-cawa", "Dampalan", "Daro", "Dawo", "Diwa-an", "Guimputlan", "Hilltop", "Ilaya", "Kauswagan", "Larayan", "Linabo", "Liyang", "Maria Cristina", "Maria Uray", "Masidlakon", "Matagobtob Poblacion", "Napo", "Opao", "Oro", "Owaon", "Oyan", "Polo", "Potol", "Potungan", "San Francisco", "San Nicolas", "San Pedro", "San Vicente", "Santa Cruz", "Santo Nino", "Sicayab-Bucana", "Sigayan", "Selinog", "Sinonoc", "Sulangon", "Tag-ulo", "Taguilon", "Tamion"};

string DipologBrgys[] = {"Barra", "Biasong", "Central", "Cogon", "Dicayas", "Diwan", "Estaca", "Galas", "Gulayon", "Lugdungan", "Minaog", "Miputak", "Olingan", "Punta", "San Jose", "Sangkol", "Santa Filomena", "Santa Isabel", "Sicayab", "Sinaman", "Turno"};

string PagadianBrgys[] = {"Alegria", "Balangasan", "Balintawak", "Baloyboan", "Banale", "Bogo", "Bomba", "Buenavista", "Bulatok", "Bulawan", "Dampalan", "Danlugan", "Dao", "Datagan", "Deborok", "Ditoray", "Dumagoc", "Gatas", "Gubac", "Gubang", "Kagawasan", "Kahayagan", "Kalasan", "Kawit", "La Suerte", "Lala", "Lapidian", "Lenienza", "Lizon Valley", "Lourdes", "Lower Sibatang", "Lumad", "Lumbia", "Macasing", "Manga", "Muricay", "Napolan", "Palpalan", "Pedulonan", "Poloyagan", "San Francisco", "San Jose", "San Pedro", "Santa Lucia", "Santa Maria", "Santiago", "Santo Nino", "Tawagan Sur", "Tiguma", "Tuburan", "Tulangan", "Tulawas", "Upper Sibatang", "White Beach"};

string ZamboangaCityBrgys[] = {"Arena Blanco", "Ayala", "Baliwasan", "Baluno", "Barangay Zone I", "Barangay Zone II", "Barangay Zone III", "Barangay Zone IV", "Boalan", "Bolong", "Buenavista", "Bunguiao", "Busay", "Cabaluay", "Cabatangan", "Cacao", "Calabasa", "Calarian", "Camino Nuevo", "Campo Islam", "Canelar", "Capisan", "Cawit", "Culianan", "Curuan", "Dita", "Divisoria", "Dulian (Upper Bunguiao)", "Dulian (Upper Pasonanca)", "Guisao", "Guiwan", "Kasanyangan", "La Paz", "Labuan", "Lamisahan", "Landang Gua", "Landang Laum", "Lanzones", "Lapakan", "Latuan", "Licomo", "Limaong", "Limpapa", "Lubigan", "Lumayang", "Lumbangan", "Lunzuran", "Maasin", "Malagutay", "Mampang", "Manalipa", "Mangusu", "Manicahan", "Mariki", "Mercedes", "Muti", "Pamucutan", "Pangapuyan", "Panubigan", "Pasilmanta", "Pasobolong", "Pasonanca", "Patalon", "Putik", "Quiniput", "Recodo", "Rio Hondo", "Salaan", "San Jose Cawa-cawa", "San Jose Gusu", "San Roque", "Sangali", "Santa Barbara", "Santa Catalina", "Santa Maria", "Santo Nino", "Sibulao", "Sinubung", "Sinunoc", "Tagasilay", "Taguiti", "Talabaan", "Talisayan", "Talon-talon", "Taluksangay", "Tetuan", "Tictapul", "Tigbalabag", "Tigtabon", "Tolosa", "Tugbungan", "Tulungatung", "Tumaga", "Tumalutab", "Tumitus", "Victoria", "Vitali", "Zambowood"};

string ZamboangaNorteMuni[] = {"Baliguian", "Godod", "Gutalac", "Jose Dalman", "Kalawit", "Katipunan", "La Libertad", "Labason", "Leon B. Postigo", "Liloy", "Manukan", "Mutia", "Pinan", "Polanco", "President Manuel A. Roxas", "Rizal", "Salug", "Sergio Osmena SR.", "Siayan", "Sibuco", "Sibutad", "Sindangan", "Siocon", "Sirawai", "Tampilisan"};

string ZamboangaSurMuni[] = {"Aurora", "Bayog", "Dimataling", "Dinas", "Dumalinao", "Dumingag", "Guipos", "Josefina", "Kumalarang", "Labangan", "Lakewood", "Lapuyan", "Mahayag", "Margosatubig", "Midsalip", "Molave", "Pitogo", "Ramon Magsaysay", "San Miguel", "San Pablo", "Sominot", "Tabina", "Tambulig", "Tigbao", "Tukuran", "Vincenzo A. Sagun"};

string PanaboBrgys[] = {"A. O. Floirendo", "Buenavista", "Cacao", "Cagangohan", "Consolacion", "Dapco", "Datu Abdul Dadia", "Gredu", "J. P. Laurel", "Kasilak", "Katipunan", "Katualan", "Kauswagan", "Kiotoy", "Little Panay", "Lower Panaga", "Mabunao", "Maduao", "Malativas", "Manay", "Nanyo", "New Malaga", "New Malitbog", "New Pandan", "New Visayas", "Quezon", "Salvacion", "San Francisco", "San Nicolas", "San Pedro", "San Roque", "San Vicente", "Santa Cruz", "Santo Nino", "Sindaton", "Southern Davao", "Tagpore", "Tibungol", "Upper Licanan", "Waterfall"};

string SamalBrgys[] = {"Adecor", "Anonang", "Aumbay", "Aundanao", "Balet", "Bandera", "Caliclic", "Camudmud", "Catagman", "Cawag", "Cogon", "Cogon (Talicod)", "Dadatan", "Del Monte", "Guilon", "Kanaan", "Kinawitnon", "Libertad", "Libuak", "Licup", "Limao", "Linosutan", "Mambago-A", "Mambago-B", "Miranda", "Moncado", "Pangubatan", "Penaplata", "Poblacion", "San Agustin", "San Antonio", "San Isidro (Babak)", "San Isidro (Kaputian)", "San Jose", "San Miguel", "San Remigio", "Santa Cruz", "Santo Nino", "Sion", "Tagbaobo", "Tagbay", "Tagbitan-ag", "Tagdaliao", "Tagpopongan", "Tambo", "Toril"};

string TagumBrgys[] = {"Apokon", "Bincungan", "Busaon", "Canocotan", "Cuambogan", "La Filipina", "Liboganon", "Madaum", "Magdum", "Magugpo East", "Magugpo North", "Magugpo Poblacion", "Magugpo South", "Magugpo West", "Mankilam", "New Balamban", "Nueva Fuerza", "Pagsabangan", "Pandapan", "San Agustin", "San Isidro", "San Miguel", "Visayan Village"};

string SurigaoNorteMuni[] = {"Alegria", "Bacuag", "Burgos", "Claver", "Dapa", "Del Carmen", "General Luna", "Gigaquit", "Mainit", "Malimono", "Pilar", "Placer", "San Benito", "San Francisco", "San Isidro", "Santa Monica", "Sison", "Socorro", "Tagana-an", "Tubod", "Barobo"};

string SurigaoSurMuni[] = {"Barobo", "Bayabas", "Cagwait", "Cantilan", "Carmen", "Carrascal", "Cortes", "Hinatuan", "Lanuza", "Lianga", "Lingig", "Madrid", "Marihatag", "San Agustin", "San Miguel", "Tagbina", "Tago"};

string LanaoSurMuni[] = {"Amai Manabilang", "Bacolod-Kalawi", "Balabagan", "Balindong", "Bayang", "Binidayan", "Buadiposo-Buntong", "Bubong", "Butig", "Calanogas", "Ditsaan-Ramain", "Ganassi", "Kapai", "Kapatagan", "Lumba-Bayabao", "Lumbaca-Unayan", "Lumbatan", "Lumbayanague", "Madalum", "Madamba", "Maguing", "Malabang", "Marantao", "Marogong", "Masiu", "Mulondo", "Pagayawan", "Piagapo", "Picong", "Poona Bayabao", "Pualas", "Saguiaran", "Sultan Dumalondong", "Tagoloan II", "Tamparan", "Taraka", "Tubaran", "Tugaya", "Wao"};

string MaguindanaoMuni[] = {"Ampatuan", "Barira", "Buldon", "Buluan", "Datu Abdullah Sangki", "Datu Anggal Midtimbang", "Datu Blah T. Sinsuat", "Datu Hoffer Ampatuan", "Datu Montawal", "Datu Odin Sinsuat", "Datu Paglas", "Datu Piang", "Datu Salibo", "Datu Saudi-Ampatuan", "Datu Unsay", "General Salipada K. Pendatun", "Guindulungan", "Kabuntalan", "Mamasapano", "Mangudadatu", "Matanog", "Northern Kabuntalan", "Pagalungan", "Paglat", "Pandag", "Parang", "Rajah Buayan", "Shariff Aguak - Capital of Maguindanao", "Shariff Saydona Mustapaha", "South Upi", "Sultan Kudarat", "Sultan Mastura", "Sultan sa Barongis", "Sultan Sumagka", "Talayan", "Upi"};

string SuluMuni[] = {"Banguingui", "Hadji Panglima Tahil", "Indanan", "Jolo - Capital of Sulu", "Kalingalan Caluang", "Lugus", "Luuk", "Maimbung", "Old Panamao", "Omar", "Pandami", "Panglima Estino", "Pangutaran", "Parang", "Pata", "Patikul", "Siasi", "Talipao", "Tapul"};

string AbraMuni[] = {"Bangued - Capital of Abra", "Boliney", "Bucay", "Bucloc", "Daguioman", "Danglas", "Dolores", "La Paz", "Lacub", "Langailang", "Lagayan", "Langiden", "Licuan-Baay", "Luba", "Malibcong", "Manabo", "Penarrubia", "Pidigan", "Pilar", "Sallapadan", "San Isidro", "San Juan", "San Quintin", "Tayum", "Tineg", "Tubo", "Villaciviosa"};

string BukidnonMuni[] = { "Baungon", "Cabanglasan", "Damulog", "Dangcagan", "Don Carlos", "Impasugong", "Kadingilan", "Kalilangan", "Kibawe", "Kitaotao", "Lantapan", "Libona", "Malitbog", "Manolo Fortich", "Maramag", "Pangantucan", "Quezon", "San Fernando", "Sumilao", "Talakag" };

string CamiguinMuni[] = { "Catarman", "Guinsiliban", "Mahinog", "Mambajao", "Sagay" };

string LanaoDelNorteMuni[] = { "Bacolod", "Baloi", "Baroy", "Kapatagan", "Kauswagan", "Kolambugan", "Lala", "Linamon", "Magsaysay", "Maigo", "Matungao", "Munai", "Nunungan", "Pantao Ragat", "Pantar", "Poona Piagapo", "Salvador", "Sapad", "Sultan Naga Dimaporo", "Tagoloan", "Tangcal", "Tubod" };

string MisamisOccidentalMuni[] = { "Aloran", "Baliangao", "Bonifacio", "Calamba", "Clarin", "Concepcion", "Don Victoriano Chiongbian", "Jimenez", "Lopes Jaena", "Panaon", "Plaridel", "Sapang Dalaga", "Sinacaban", "Tudela" };

string MisamisOrientalMuni[] = { "Alubijid", "Balingasag", "Balingoan", "Binuangan", "Claveria", "Gitagum", "Initao", "Jasaan", "Kinoguitan", "Lagonglong", "Laguindingan", "Libertad", "Lugait", "Magsaysay", "Manticao", "Medina", "Naawan", "Opol", "Salay", "Sugbongcogon", "Tagoloan", "Talisayan", "Villanueva" };

string GeneralSantosBrgys[] = {"Apopong", "Baluan", "Batomelong", "Buayan", "Bula", "Calumpang", "City Heights", "Conel", "Dadiangas East", "Dadiangas North", "Dadiangas South", "Dadiangas West", "Fatima", "Katangawan", "Labangal", "Lagao", "Ligaya", "Mabuhay", "Olympog", "San Isidro", "San Jose", "Siguel", "Sinawal", "Tambler", "Tinagacan", "Upper Labay"};

string KoronadalBrgys[] = {"Assumption", "Avancena", "Cacub", "Caloocan", "Carpenter Hill", "Concepcion", "Esperanza", "General Paulino Santos", "Mabini", "Magsaysay", "Mambucal", "Morales", "Namnama", "New Pangasinan", "Paraiso", "Rotonda", "San Isidro", "San Jose", "San Roque", "Santa Cruz", "Santo Nino", "Sarabia", "Zone I", "Zone II", "Zone III", "Zone IV", "Zulueta"};

string TangubBrgys[] = {"Aquino", "Balatacan", "Baluk", "Banglay", "Barangay I-City Hall", "Barangay III-Market Kalubian", "Barangay II-Marilou Annex", "Barangay IV-Saint Michael", "Barangay VII-Upper Polao", "Barangay VI-Lower Polao", "Barangay V-Malubog", "Bintana", "Bocator", "Bongabong", "Caniangan", "Capalaran", "Catagan", "Garang", "Guinabot", "Guinalaban", "Huyohoy", "Isidro D. Tan", "Kauswagan", "Kimat", "Labuyo", "Lorenzo Tan", "Lumban", "Maloro", "Manga", "Mantic", "Maquilao", "Matugnaw", "Migcanaway", "Minsubong", "Owayan", "Paiton", "Panalsalan", "Pangabuan", "Prenza", "Salimpuno", "San Antonio", "San Apolinario", "San Vicente", "Santa Cruz", "Santa Maria", "Santo Nino", "Sicot", "Silanga", "Silangit", "Simasay", "Sumirap", "Taguite", "Tituron", "Tugas", "Villaba"};

string OzamizBrgys[] = {"50th District", "Aguada", "Bacolod", "Bagakay", "Balintawak", "Banadero", "Baybay San Roque", "Baybay Santa Cruz", "Baybay Triunfo", "Bongbong", "Calabayan", "Capucao C.", "Capucao P.", "Carangan", "Carmen", "Catadman-Manabay", "Cavinte", "Cogon", "Dalapang", "Diguan", "Dimaluna", "Dona Consuelo", "Embargo", "Gala", "Gango", "Gotokan Daku", "Gotokan Diot", "Guimad", "Guingona", "Kinuman Norte", "Kinuman Sur", "Labinay", "Labo", "Lam-an", "Liposong", "Litapan", "Malaubang", "Manaka", "Maningcol", "Mentering", "Molicay", "Pantaon", "Pulot", "San Antonio", "Sangay Daku", "Sangay Diot", "Sinuza", "Stimson Abordo", "Tabid", "Tinago", "Trigos"};

string OroquietaBrgys[] = {"Apil", "Binuangan", "Bolibol", "Buenavista", "Bunga", "Buntawan", "Burgos", "Canubay", "Ciriaco C. Pastrano", "Clarin Settlement", "Dolipos Alto", "Dolipos Bajo", "Dulapo", "Dullan Norte", "Dullan Sur", "Lamac Lower", "Lamac Upper", "Langcangan Lower", "Langcangan Proper", "Langcangan Upper", "Layawan", "Loboc Lower", "Loboc Upper", "Malindang", "Mialen", "Mobod", "Paypayan", "Pines", "Poblacion I", "Poblacion II", "Rizal Lower", "Rizal Upper", "San Vicente Alto", "San Vicente Bajo", "Sebucal", "Senote", "Taboc Norte", "Taboc Sur", "Talairon", "Talic", "Tipan", "Toliyok", "Tuyabang Alto", "Tuyabang Bajo", "Tuyabang Proper", "Victoria", "Villaflor"};

string DavaoCityBrgys[] = {"Acacia", "Agdao", "Alambre", "Alejandra Navarro", "Alfonso Angliongto Sr.", "Angalan", "Atan-awe", "Baganihan", "Bago Aplaya", "Bago Gallera", "Bago Oshiro", "Baguio", "Balengaeng", "Baliok", "Bangkas Heights", "Bantol", "Baracatan", "Barangay 10-A", "Barangay 11-B", "Barangay 12-B", "Barangay 13-B", "Barangay 14-B", "Barangay 15-B", "Barangay 16-B", "Barangay 17-B", "Barangay 18-B", "Barangay 19-B", "Barangay 1-A", "Barangay 20-B", "Barangay 21-C", "Barangay 22-C", "Barangay 23-C", "Barangay 24-C", "Barangay 25-C", "Barangay 26-C", "Barangay 27-C", "Barangay 28-C", "Barangay 29-C", "Barangay 2-A", "Barangay 30-C", "Barangay 31-D", "Barangay 32-D", "Barangay 33-D", "Barangay 34-D", "Barangay 35-D", "Barangay 36-D", "Barangay 37-D", "Barangay 38-D", "Barangay 39-D", "Barangay 3-A", "Barangay 40-D", "Barangay 4-A", "Barangay 5-A", "Barangay 6-A", "Barangay 7-A", "Barangay 8-A", "Barangay 9-A", "Bato", "Bayabas", "Biao Escuela", "Biao Guianga", "Biao Joaquin", "Binugao", "Bucana", "Buda", "Buhangin", "Bunawan", "Cabantian", "Cadalian", "Calinan", "Callawa", "Camansi", "Carmen", "Catalunan Grande", "Catalunan Pequeno", "Catigan", "Cawayan", "Centro", "Colosas", "Communal", "Crossing Bayabas", "Dacudao", "Dalag", "Dalagdag", "Daliao", "Daliaon Plantation", "Datu Salumay", "Dominga", "Dumoy", "Eden", "Fatima", "Gatungan", "Gov. Paciano Bangoy", "Gov. Vicente Duterte", "Gumalang", "Gumitan", "Ilang", "Inayangan", "Indangan", "Kap. Tomas Monteverde, Sr.", "Kilate", "Lacson", "Lamanan", "Lampianao", "Langub", "Lapu-lapu", "Leon Garcia, Sr.", "Lizada", "Los Amigos", "Lubogan", "Lumiad", "Ma-a", "Mabuhay", "Magsaysay", "Magtuod", "Mahayag", "Malabog", "Malagos", "Malamba", "Manambulan", "Mandug", "Manuel Guianga", "Mapula", "Marapangi", "Marilog", "Matina Aplaya", "Matina Biao", "Matina Crossing", "Matina Pangi", "Megkawayan", "Mintal", "Mudiang", "Mulig", "New Carmen", "New Valencia", "Pampanga", "Panacan", "Panalum", "Pandaitan", "Pangyan", "Paquibato", "Paradise Embak", "Rafael Castillo", "Riverside", "Salapawan", "Salaysay", "Saloy", "San Antonio", "San Isidro", "Santo Nino", "Sasa", "Sibulan", "Sirawan", "Sirib", "Suawan", "Subasta", "Sumimao", "Tacunan", "Tagakpan", "Tagluno", "Tagurano", "Talandang", "Talomo", "Talomo River", "Tamayong", "Tambobong", "Tamugan", "Tapak", "Tawan-tawan", "Tibuloy", "Tibungco", "Tigatto", "Toril", "Tugbok", "Tungakalan", "Ubalde", "Ula", "Vicente Hizon Sr.", "Waan", "Wangan", "Wilfredo Aquino", "Wines"};

string DigosCityBrgys[] = {"Aplaya", "Balabag", "Binaton", "Cogon", "Colorado", "Dawis", "Dulangan", "Goma", "Igpit", "Kapatagan", "Kiagot", "Lungag", "Mahayahay", "Matti", "Ruparan", "San Agustin", "San Jose", "San Miguel", "San Roque", "Sinawilan", "Soong", "Tiguman", "Tres de Mayo", "Zone 1", "Zone 2"};

string MarawiBrgys[] = {"Ambolong", "Amito Marantao", "Bacolod Chico Proper", "Banga", "Bangco", "Banggolo Poblacion", "Bangon", "Basak Malutlut", "Beyaba-Damag", "Bito Buadi Itowa", "Bito Buadi Parba", "Boganga", "Boto Ambolong", "Buadi Sacayo", "Bubong Lumbac", "Bubonga Cadayonan", "Bubonga Lilod Madaya", "Bubonga Marawi", "Bubonga Pagalamatan", "Bubonga Punod", "Cabasaran", "Cabingan", "Cadayonan", "Cadayonan I", "Calocan East", "Calocan West", "Daguduban", "Dansalan", "Datu Naga", "Datu sa Dansalan", "Dayawan", "Dimaluna", "Dulay", "Dulay West", "East Basak", "Emie Punud", "Fort", "Gadongan", "Gadongan Mapantao", "Guimba", "Kapantaran", "Kilala", "Kormatan Matampay", "Lilod Madaya", "Lilod Saduc", "Lomidong", "Lumbac Marinaut", "Lumbaca Madaya", "Lumbaca Toros", "Malimono", "Marawi Poblacion", "Marinaut East", "Marinaut West", "Matampay", "Mipaga Proper", "Moncado Colony", "Moncado Kadingilan", "Moriatao Loksadato", "Navarro", "Norhaya Village", "Olawa Ambolong", "Pagalamatan Gambai", "Pagayawan", "Panggao Saduc", "Pantaon", "Papandayan", "Papandayan Caniogan", "Paridi", "Patani", "Pindolonan", "Poona Marantao", "Pugaan", "Rapasun MSU", "Raya Madaya I", "Raya Madaya II", "Raya Saduc", "Rorogagus East", "Rorogagus Proper", "Sabala Manao", "Sabala Manao Proper", "Saduc Proper", "Sagonsongan", "Sangcay Dansalan", "Somiorang", "South Madaya Proper", "Sugod Proper", "Tampilong", "Timbangalan", "Tolali", "Tongantongan-Tuca Timbangalan", "Toros", "Tuca", "Tuca Ambolong", "Tuca Marinaut", "Wawalayan Calocan", "Wawalayan Marinaut"};

string TabukBrgys[] = {"Agbannawag", "Amlao", "Appas", "Bado Dangwa", "Bagumbayan", "Balawag", "Balong", "Bantay", "Bulanao", "Bulanao Norte", "Bulo", "Cabaritan", "Cabaruan", "Calaccad", "Calanan", "Casigayan", "Cudal", "Dagupan Centro", "Dagupan Weste", "Dilag", "Dupag", "Gobgob", "Guilayon", "Ipil", "Lacnog", "Lacnog West", "Lanna", "Laya East", "Laya West", "Lucog", "Magnao", "Magsaysay", "Malalao", "Malin-awa", "Masablang", "Nambaran", "Nambucayan", "Naneng", "New Tanglag", "San Juan", "San Julian", "Suyang", "Tuga"};

string BaguioBrgys[] = {"A. Bonifacio-Caguioa-Rimando", "Abanao-Zandueta-Kayong-Chugum-Otek", "Alfonso Tabora", "Ambiong", "Andres Bonifacio", "Apugan-Loakan", "Asin Road", "Atok Trail", "Aurora Hill Proper", "Aurora Hill, North Central", "Aurora Hill, South Central", "Bagong Lipunan", "Bakakeng Central", "Bakakeng North", "Bal-Marcoville", "Balsigan", "Bayan Park East", "Bayan Park Village", "Bayan Park West", "BGH Compound", "Brookside", "Brookspoint", "Cabinet Hill-Teacher's Camp", "Camdas Subdivision", "Camp 7", "Camp 8", "Camp Allen", "Campo Filipino", "City Camp Central", "City Camp Proper", "Country Club Village", "Cresencia Village", "Dagsian, Lower", "Dagsian, Upper", "Dizon Subdivision", "Dominican Hill-Mirador", "Dontogan", "DPS Area", "Engineers' Hill", "Fairview Village", "Ferdinand", "Fort del Pilar", "Gabriela Silang", "General Emilio F. Aguinaldo", "General Luna, Lower", "General Luna, Upper", "Gibraltar", "Greenwater Village", "Guisad Central", "Guisad Sorong", "Happy Hollow", "Happy Homes", "Harrison-Claudio Carantes", "Hillside", "Holy Ghost Extension", "Holy Ghost Proper", "Honeymoon", "Imelda R. Marcos", "Imelda Village", "Irisan", "Kabayanihan", "Kagitingan", "Kayang Extension", "Kayang-Hilltop", "Kias", "Legarda-Burnham-Kisad", "Liwanag-Loakan", "Loakan Proper", "Lopez Jaena", "Lourdes Subdivision Extension", "Lourdes Subdivision, Lower", "Lourdes Subdivision, Proper", "Lualhati", "Lucnab", "Magsaysay Private Road", "Magsaysay, Lower", "Magsaysay, Upper", "Malcolm Square-Perfecto", "Manuel A. Roxas", "Market Subdivision, Upper", "Middle Quezon Hill Subdivision", "Military Cut-off", "Mines View Park", "Modern Site, East", "Modern Site, West", "MRR-Queen of Peace", "New Lucban", "Outlook Drive", "Pacdal", "Padre Burgos", "Padre Zamora", "Palma-Urbano", "Phil-Am", "Pinget", "Pinsao Pilot Project", "Pinsao Proper", "Poliwes", "Pucsusan", "Quezon Hill Proper", "Quezon Hill, Upper", "Quirino Hill, East", "Quirino Hill, Lower", "Quirino Hill, Middle", "Quirino Hill, West", "Quirino-Magsaysay, Upper", "Rizal Monument Area", "Rock Quarry, Lower", "Rock Quarry, Middle", "Rock Quarry, Upper", "Saint Joseph Village", "Salud Mitra", "San Antonio Village", "San Luis Village", "San Roque Village", "San Vicente", "Sanitary Camp, North", "Sanitary Camp, South", "Santa Escolastica", "Santo Rosario", "Santo Tomas Proper", "Santo Tomas School Area", "Scout Barrio", "Session Road Area", "Slaughter House Area", "SLU-SVP Housing Village", "South Drive", "Teodora Alonzo", "Trancoville", "Victoria Village"};

string SurigaoCityBrgys[] = {"Alang-alang", "Alegria", "Anomar", "Aurora", "Balibayon", "Baybay", "Bilabid", "Bitaugan", "Bonifacio", "Buenavista", "Cabongbongan", "Cagniog", "Cagutsan", "Canlanipa", "Cantiasay", "Capalayan", "Catadman", "Danao", "Danawan", "Day-asan", "Ipil", "Libuac", "Lipata", "Lisondra", "Luna", "Mabini", "Mabua", "Manyagao", "Mapawa", "Mat-i", "Nabago", "Nonoc", "Orok", "Poctoy", "Punta Bilar", "Quezon", "Rizal", "Sabang", "San Isidro", "San Jose", "San Juan", "San Pedro", "San Roque", "Serna", "Sidlakan", "Silop", "Sugbay", "Sukailang", "Taft", "Talisay", "Togbongon", "Trinidad", "Washington", "Zaragoza"};

string BayuganBrgys[] = {"Berseba", "Bucac", "Cagbas", "Calaitan", "Canayugan", "Charito", "Claro Cortez", "Fili", "Gamao", "Getsemane", "Grace Estate", "Hamogaway", "Katipunan", "Mabuhay", "Magkiangkang", "Mahayag", "Marcelina", "Maygatasan", "Montivesta", "Mt. Ararat", "Mt. Carmel", "Mt. Olive", "New Salem", "Noli", "Osmena", "Panaytay", "Pinagalaan", "Poblacion", "Sagmone", "Saguma", "Salvacion", "San Agustin", "San Isidro", "San Juan", "Santa Irene", "Santa Teresita", "Santo Nino", "Taglatawan", "Taglibas", "Tagubay", "Verdu", "Villa Undayon", "Wawa"};

string ButuanBrgys[] = {"Agao Poblacion", "Agusan Pequeno", "Ambago", "Amparo", "Ampayon", "Anticala", "Antongalon", "Aupagan", "Baan KM 3", "Baan Riverside Poblacion", "Babag", "Bading Poblacion", "Bancasi", "Banza", "Baobaoan", "Basag", "Bayanihan Poblacion", "Bilay", "Bitan-agan", "Bit-os", "Bobon", "Bonbon", "Bugabus", "Bugsukan", "Buhangin Poblacion", "Cabcabon", "Camayahan", "Dagohoy Poblacion", "Dankias", "De Oro", "Diego Silang Poblacion", "Don Francisco", "Doongan", "Dulag", "Dumalagan", "Florida", "Golden Ribbon Poblacion", "Holy Redeemer Poblacion", "Humabon Poblacion", "Imadejas Poblacion", "Jose Rizal Poblacion", "Kinamlutan", "Lapu-lapu Poblacion", "Lemon", "Leon Kilat Poblacion", "Libertad", "Limaha Poblacion", "Los Angeles", "Lumbocan", "Maguinda", "Mahay", "Mahogany Poblacion", "Maibu", "Mandamo", "Manila de Bugabus", "Maon Poblacion", "Masao", "Maug", "New Society Village Poblacion", "Nong-nong", "Obrero Poblacion", "Ong Yiu Poblacion", "Pagatpatan", "Pangabugan", "Pianing", "Pigdaulan", "Pinamanculan", "Port Poyohon Poblacion", "Rajah Soliman Poblacion", "Salvacion", "San Ignacio Poblacion", "San Mateo", "San Vicente", "Santo Nino", "Sikatuna Poblacion", "Silongan Poblacion", "Sumile", "Sumilihon", "Tagabaca", "Taguibo", "Taligaman", "Tandang Sora Poblacion", "Tiniwisan", "Tungao", "Urduja Poblacion", "Villa Kananga"};

string CabadbaranBrgys[] = {"Antonio Luna", "Bayabas", "Bay-ang", "Caasinan", "Cabinet", "Calamba", "Calibunan", "Comagascas", "Concepcion", "Del Pilar", "Katugasan", "Kauswagan", "La Union", "Mabini", "Mahaba", "Poblacion 1", "Poblacion 10", "Poblacion 11", "Poblacion 12", "Poblacion 2", "Poblacion 3", "Poblacion 4", "Poblacion 5", "Poblacion 6", "Poblacion 7", "Poblacion 8", "Poblacion 9", "Puting Bato", "Sanghan", "Soriano", "Tolosa"};

string MatiCityBrgys[] = {"Badas", "Bobon", "Buso", "Cabuaya", "Central", "Culian", "Dahican", "Danao", "Dawan", "Don Enrique Lopez", "Don Martin Marundan", "Don Salvador Lopez, Sr.", "Langka", "Lawigan", "Libudon", "Luban", "Macambol", "Mamali", "Matiao", "Mayo", "Sainz", "Sanghay", "Tagabakid", "Tagbinonga", "Taguibo", "Tamisan"};

string IliganBrgys[] = {"Abuno", "Acmac", "Bagong Silang", "Bonbonon", "Bunawan", "Buru-un", "Dalipuga", "Del Carmen", "Digkilaan", "Ditucalan", "Dulag", "Hinaplanon", "Hindang", "Kabacsanan", "Kalilangan", "Kiwalan", "Lanipao", "Luinab", "Mahayhay", "Mainit", "Mandulog", "Maria Cristina", "Palao", "Panoroganan", "Poblacion", "Puga-an", "Rogongon", "San Miguel", "San Roque", "Santa Elena", "Santa Filomena", "Santiago", "Santo Rosario", "Saray-Tibanga", "Suarez", "Tambacan", "Tibanga", "Tipanoy", "Tominobo Proper", "Tominobo Upper", "Tubod", "Ubaldo Laya", "Upper Hinaplanon", "Villa Verde"};

string TandagBrgys[] = {"Awasian", "Bagong Lungsod", "Bioto", "Bongtod Poblacion", "Buenavista", "Dagocdoc", "Mabua", "Mabuhay", "Maitum", "Maticdum", "Pandanon", "Pangi", "Quezon", "Rosario", "Salvacion", "San Agustin Norte", "San Agustin Sur", "San Antonio", "San Isidro", "San Jose", "Telaje"};

string BisligBrgys[] = {"Bucto", "Burboanan", "Caguyao", "Coleto", "Comawas", "Kahayag", "Labisma", "Lawigan", "Maharlika", "Mangagoy", "Mone", "Pamanlinan", "Pamaypayan", "Poblacion", "San Antonio", "San Fernando", "San Isidro", "San Jose", "San Roque", "San Vicente", "Santa Cruz", "Sibaroy", "Tabon", "Tumanan"};

string greeting = "\nWELCOME TO THE GEOGRAPHICAL INFORMATION OF THE PHILIPPINES!";

char choose;

char decision1, decision2;

do {

cout << greeting << endl;

cout << "WOULD YOU LIKE TO FIND OUT MORE ABOUT THE DIFFERENT REGIONS? (Y/N): ";

cin >> choose;

if (choose == 'Y' || choose == 'y'){

char info;

int region;

bool validation = false;

while (!validation){

cout << "Here are all the regions in the Philippines: " << endl;

cout << "1. Region I - Ilocos Region" << endl;

cout << "2. Region II - Cagayan Valley" << endl;

cout << "3. Region III - Central Luzon" << endl;

cout << "4. Region IV-A - CALABARZON" << endl;

cout << "5. Region IV-B - MIMAROPA Region" << endl;

cout << "6. Region V - Bicol Region" << endl;

cout << "7. Region VI - Western Visayas" << endl;

cout << "8. Region VII - Central Visayas" << endl;

cout << "9. Region VIII - Eastern Visayas" << endl;

cout << "10. Region IX - Zamboanga Peninsula" << endl;

cout << "11. Region X - Northern Mindanao" << endl;

cout << "12. Region XI - Davao Region" << endl;

cout << "13. Region XII - SOCCSKSARGEN" << endl;

cout << "14. Region XIII - Caraga" << endl;

cout << "15. NCR - National Capital Region" << endl;

cout << "16. CAR - Cordillera Administrative Region" << endl;

cout << "17. BARMM - Bangsamoro Autonomous Region in Muslim Mindanao" << endl;

cout << "Select a number corresponding to a region to view more details about it: ";

cin >> region;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";

} else if (region >= 1 && region <= 17) {

validation = true;

} else {

cout << "CORRESPONDING NUMBER NOT FOUND. PLEASE ENTER A NUMBER BETWEEN 1-17.\n";

}

do{

switch(region){//REGION

case 1: {//CASE1

char prov;

char cmb;

cout << "REGION I - Ilocos Region" << endl;

cout << "The Ilocos Region is located in the northwestern section of Luzon." << endl;

cout << "It has 4 provinces, 9 cities, 116 municipalities, and 3,267 barangays." << endl;

cout << "Its area is 129.65 per kilometer squared." << endl;

cout << "It has a total population of 5,301,139 as of 2020." << endl;

cout << "Would you like to find out about the different provinces in Ilocos Region? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int ilocos;

cout << "Here are the provinces in Ilocos Region: " << endl;

cout << "1. Ilocos Norte" << endl;

cout << "2. Ilocos Sur" << endl;

cout << "3. La Union" << endl;

cout << "4. Pangasinan" << endl;

cout << "Choose from 1-4 to find out to choose if you want to find out more about the different provinces in Ilocos Region: ";

cin >> ilocos;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (ilocos == 1){

cout << "You have chosen Ilocos Norte." << endl;

cout << "Ilocos Norte has a total population of 609,588 as of 2020.\n";

cout << "It's area is 3,418.75 in kilometer squared." << endl;

cout << "Has 2 Cities, 21 Municipalities, and 599 Barangays." << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){//IFCITIES

char citybarangays;

cout << "Here are all the Cities in Ilocos Region: " << endl;

cout << "1. Laoag - Capital City in Ilocos Norte" << endl;

cout << "2. Batac - Component City" << endl;

cout << "Would you like to find out more about the cities and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

int barangayCount = sizeof(LaoagBrgys)/sizeof(LaoagBrgys[0]);

cout << "You have chosen Laoag. \n";

cout << "Mayor: Michael Marcos Keon";

cout << "The City of Laoag is a 3rd class component city and it's the capital of Ilocos Norte. The word Laoag means 'light' which is why Laoag is also called Sunshine city. Laoag is the largest city in northern luzon and it's a trade centre for an agricultural region producing corn (maize), rice, and tobacco, the city has warehouses, wholesale outlets, and several cigarette factories.\n";

cout << "According to the 2020 census, its total population is 111,651.\n";

cout << "The City of Laoag's ZIP code is 2900.\n";

cout << "Mayor: Michael Marcos Keon";

cout << "Here are all the barangays in Laoag:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << LaoagBrgys[i] << "\n";

}

break;

}

case 2: {

int barangayCount = sizeof(BatacBrgys)/sizeof(BatacBrgys[0]);

cout << "You have chosen Batac. \n";

cout << "Mayor: Albert D. Chua\n";

cout << "The City of Batac is a 5th class component city. It is the birthplace of Gregorio Aglipay, the founder of the Philippine Independent Church, also known as the Aglipayan Church, and also to General Artemio Ricarte, often known as the father of the Philippine Army.";

cout << "According to the 2020 census, its total population is 55,484.\n";

cout << "The City of Batac's ZIP code is 2906\n";

cout << "Here are all the barangays in Batac: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BatacBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT DETECTED.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'M'){//IFMUNICIPALITIES

int muniCount = sizeof(IlocosNorMuni)/sizeof(IlocosNorMuni[0]);

char municipal;

cout << "Here are all the Municipalities in Ilocos Norte: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << IlocosNorMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Adams. \n";

cout << "Mayor: Rosalia D. Dupagen\n";

cout << "Adams, Ilocos Norte is known for its waterfalls which are Inawayan Falls, Cabacan Falls, and Kabigan Falls, caves (Bantay Abot Cave), beaches, and indigenous community. Local products produced in Adams include: Saplid - local for soft broom. Wine - just like Tapuey or rice wine. Tropical wine - it depends on the season.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Bacarra. \n";

cout << "Mayor: Nicomedes C. dela Cruz Jr.\n";

cout << "Bacarra, a town in the Province of Ilocos Norte, is known for several things such as the Balikbayan Town of the Philippines. The Bacarra Church is known for its domeless bell tower, Torre ti Bacarra, which is 160 ft tall and three stories high. The tower was originally built in 1828, but the dome was toppled in 1983 by an earthquake. The church also has a museum, Museo de Bacarra, which is housed in a restored Spanish colonial era convent.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Badoc. \n";

cout << "Mayor: Maximo D. Cajigal\n";

cout << "Badoc is known to be one of the oldest towns in the province of Ilocos Norte and the birthplace of Juan Luna, the most famous Filipino Painter. The Bado-Badoc festival celebrates the rich history of this town named after a humble grass called bado badoc which was growing abundantly along its river banks.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Bangui. \n";

cout << "Mayor: Fidel A. Cimatu Jr.";

cout << "The wind turbines in Bangui are a major attraction for tourists. The turbines are arranged in a single row along the shoreline of Bangui Bay and produce at least 50% of the electricity for Ilocos Norte.";

break;

}

case 5: {

cout << "You have chosen the municipality of Banna. \n";

cout << "Mayor: Mary Chrislyn C. Abadilla\n";

cout << "The word Banna was taken from the native chieftain named Bana. It was formerly known as Espiritu. The name changed under Sangguniang Panlalawigan (SP) Resolution No. 120–95 on March 20, 1995; ratified on March 10, 1996.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Burgos. \n";

cout << "Mayor: Crescente N. Garcia\n";

cout << "Burgos in Ilocos Norte, Philippines is known for its scenic coastline, historic lighthouse, and eroded rock formations. The Kapurpurawan rock formation is located on the rocky coast of Burgos, Ilocos Norte. It is known for its creamy white and streamlined limestone formations, which have been sculpted by different oceanic and weather forces. Other attractions includes Bangui Windmills, Blue Lagoon, Kabigan Falls, Hannah's Zipline, and Bantay Abot Cave\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Carasi. \n";

cout << "Mayor: Robella G. Gaspar\n";

cout << "Carasi is a quiet rustic town perched on a plateau at the border of Ilocos Norte and Apayao. It is one of the province’s smallest towns and is populated mostly by Yapayaos and Itnegs. The unpopulated area, which is more than half of the entire municipality’s land area, is forestland. Life remains uncomplicated in Carasi and vestiges of urbanity have yet to mar its landscape.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Currimao. \n";

cout << "Mayor: Edward T. Quilala\n";

cout << "Currimao is a small town located in the province of Ilocos Norte, Philippines. It is a hidden gem that is often overlooked by tourists, but it has a lot to offer. The town is known for its stunning beaches, rich history, and unique culture.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Dingras. \n";

cout << "Mayor: Joefrey P. Saguid\n";

cout << "Some of the famous tourist destinations in Dingras are the Purugganan Ancestral House. This house is a well-preserved colonial shelter which was used as a town hall during the Spanish era. Francisco Falls which is one of the hidden gems in Ilocos Norte region. This is a perfect destination for adventurers who love nature and engage with the exciting wonders of wildlife. The drop-off point is in Maui, Brgy. Sta. Ana, Solsona, Ilocos Norte but it is in Dingras.The Madongan Diversion Dam, It has an awe-inspiring beauty and grandeur of artificial shower curtain which is a remarkable sight. According to locals, it resembles the Dingrenios’ experiences and tradition. The dam is also used for irrigation for their agricultural products as this town is the rice granary of the Ilocos Norte region.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Dumalneg. \n";

cout << "Mayor: Francisco R. Espiritu Jr.\n";

cout << "Dumalneg’s terrain rolls as the land rises to meet the Cordillera mountains. This lush municipality is home to a predominantly Yapayao population. The people here take great pride in their culture so it is not surprising to meet locals wearing traditional clothing while walking around the municipality. Dumalneg is proud of the Yapayao culture and makes an effort to promote this through the presentation of the tadek dance to visitors and in official festivities. The Magtatpap Festival, from the Yapayao word meaning meeting, was launched in Dumalneg in 1996.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Marcos. \n";

cout << "Mayor: Antonio V. Mariano\n";

cout << "The Municipality of Marcos is traversed by the Padsan River in the South, while it is bounded by the Burnay River on the Northeast, and the west by Bongo River. It is predominantly mountainous particularly in the eastern portion with a highest elevation of 1,482 meters above sea level. The town, named after Don Mariano Marcos (the father of Ferdinand E. Marcos, 10th President of the Republic of the Philippines), created by virtue of Republic Act 3753. This law was sponsored by then Congressman Simeon M. Valdez and approved on June 22, 1963.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Nueva Era. \n";

cout << "Mayor: Aldrin R. Garvida\n";

cout << "The town of Nueva Era in Ilocos Norte is one of the three municipalities of Ilocos Norte with tribal communities, along with Adams and Dumalneg. With its rich culture, flourishing ambiance, and unspoiled ecological tourism, this third class municipality has evolved into contributing in the booming tourism industry of the province. The eco-park, which represents the indigenous culture of the Tingguian community here, highlights the people’s way of living which can be seen in the intricate interior of the tree huts and houses. While visitors can relish the genuine customs and traditions of the Tingguians, they can also enjoy other recreational activities such as the hanging bridge and swimming pool.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Pagudpud. \n";

cout << "Mayor: Rafael Ralph L. Benemerito II\n";

cout << "Pagudpud is a coastal town located at the northernmost tip of Ilocos Norte. It is known as the Boracay of the North”, but it has so much more to offer apart from its pristine coastline. Pagudpud's Bangui Bay also features 20 wind turbines, which makes it Southeast Asia's first windmill farm. Pagudpud has crystal-clear waters, stunning natural landscapes, and dramatic waterfalls, including Kabigan and Saguigui. Pagudpud also has three long, white-sand beaches with palm trees: Maira-ira, Saud, and Pansian.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Paoay. \n";

cout << "Mayor: Jessie E. Galano\n";

cout << "Another UNESCO World Heritage Site, the San Agustin Church, otherwise known as the Paoay Church, is a Roman Catholic church famous for its gigantic side and back buttresses—a distinct feature of Spanish colonial earthquake architecture. Paoay is surrounded by stunning natural landscapes, including sand dunes, beaches, and mountains\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Pasuquin. \n";

cout << "Mayor: Robert D. Aguinaldo\n";

cout << "Pasuquin is a small town located in the province of Ilocos Norte, Philippines. It is known for its beautiful beaches, rich history, and delicious food. Pasuquin has wide sandy beaches that have been developed into resorts and picnic grounds, it is famous for its high-quality artisanal salt, which is handmade using traditional tools and boiled for hours. \n";

break;

}

case 16: {

cout << "You have chosen the municipality of Piddig. \n";

cout << "Mayor: Georgina Salazar Guillen\n";

cout << "The town is known for its role in the Basi Revolt, led by Pedro Mateo, a native of Piddig. Today, Piddig is known for its basi and for their sariwagwag, a dish made out of gabi leaves with fresh shrimps that are freshly gathered from their rich river. Piddig is known for producing some of the best basi in Ilocos. Basi is a pale red drink made by fermenting sugarcane juice with flavorings like ground glutinous rice, duhat bark, and other fruits, barks, and leaves. \n";

break;

}

case 17: {

cout << "You have chosen the municipality of Pinili. \n";

cout << "Mayor: Rommel T. Labasan\n";

cout << "Pinili was once a forested hilly part of the towns of Paoay, Badoc, and Batac. Pinili is both a Tagalog and Ilocano word for chosen”. Pinili is known for the Bawang Festival that is celebrated as tribute to the hardworking farmers in the community who cultivate garlic (bawang), known as the white gold” of Ilocos Norte and a very productive crop in terms of economic and agricultural growth.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of San Nicolas. \n";

cout << "Mayor: Angel Miguel L. Hernando\n";

cout << "Pottery-making is the main trademark of San Nicolas. It was introduced by the Spaniards mainly in Barangay 8, and they called it Alfareria, meaning Art of Pottery. The present name of San Nicolas was given in the year 1733, after Saint Nicholas of Tolentino, who was believed to have protected the people against floods, earthquakes, fires, typhoons and other calamities. It is significant that in Ilocos Norte, only San Nicolas was named after a saint.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Sarrat. \n";

cout << "Mayor: Remigio B. Medrano\n";

cout << "The town is known as the birthplace of Ferdinand Marcos, the 10th President of the Philippines and for Sarrat Church, the largest church in the province and with the longest nave in the country and an Important Cultural Property of the Philippines. Binakol Festival is an annual festival that promotes Binakol weaving and showcases local handicrafts here in Sarrat.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Solsona. \n";

cout << "Mayor: Joseph E. de Lara\n";

cout << "Solsona is rich in agricultural products such as rice, corn, vegetables and other crops due to its fertile soil and abundant water supplied by its rivers and streams. Cheese is made from cow and carabao milk at some barangays but still in limited quantity. Solsona hosts the Gameng Festival, a yearly celebration that highlights the farming, fishing, and hunting activities of the townspeople. The festival also features the Abaludal Dance.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Vintar. \n";

cout << "Mayor: Richard A. Degala\n";

cout << "Vintar is a town in the Philippines' Ilocos Norte province known for many things. The town is generally rural but famous all over the province for its beautiful women with strong Spanish features. Hence the town has its moniker, The Home of Beautiful People”.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}//municipal

}//IFMUNICIPALITIES

}

else if (ilocos == 2){

cout << "You have chosen Ilocos Sur." << endl;

cout << "Ilocos Sur has a total population of 706,009 as of 2020" << endl;

cout << "Its area is 2,596.00 in kilometer squared." << endl;

cout << "Has 2 cities, 32 municipalities, and 768 barangays." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C, M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c') {//IFCITIES

char citybarangays;

cout << "Here are all the Cities in Ilocos Sur: " << endl;

cout << "1. Vigan - Capital City in Ilocos Sur" << endl;

cout << "2. Candon - Component City" << endl;

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

int barangayCount = sizeof(ViganBrgys)/sizeof(ViganBrgys[0]);

cout << "You have chosen Vigan. \n";

cout << "Mayor: Ferdinand C. Medina\n";

cout << "The City of Vigan is a 4th class component city and it's the capital of the province of Ilocos Sur. It's name during the Spanish Foundation was Villa Fernandina or Town of Ferdinand. Vigan is unique for having preserved much of its Hispanic colonial character, particularly its grid street pattern and historic urban lay out. Its significance also lies on how the different architectural influences are blended to create a homogenous townscape.\n";

cout << "The City of Vigan's ZIP code is 2700.\n";

cout << "According to the 2020 census, it's total population is 53,935.\n";

cout << "Here are all the barangays in Vigan. \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << ViganBrgys[i] << "\n";

}

break;

}

case 2: {

int barangayCount = sizeof(CandonBrgys)/sizeof(CandonBrgys[0]);

cout << "You have chosen Candon. \n";

cout << "Mayor: Eric Dario Singson\n";

cout << "The City of Candon is a 4th class component city and it is dubbed as the Tobacco Capital of the Phiippines. The word 'CANDON' comes from 'CANDONG', which the natives gave to a big tree in the village around which life, culture, and beauty is centered. It is the foremost trading center in the second district of Ilocos Sur.\n";

cout << "The city of Candon's ZIP code is 2710.\n";

cout << "According to the 2020 census, it's total population is 61,432.\n";

cout << "Here are all the barangays in Candon. \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CandonBrgys[i] << "\n";

}

break;

}

default: {

cout << "CORRESPONDING NUMBER NOT FOUND.\n" << endl;

}

}

}

} //IFCITIES

else if (cmb == 'M' || cmb == 'm'){ //IFMUNICIPALITIES

int muniCount = sizeof(IlocosSurMuni)/sizeof(IlocosSurMuni[0]);

char municipal;

cout << "Here are all the Municipalities in Ilocos Sur: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << IlocosSurMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Alilem. \n";

cout << "Mayor: Velmor P. Sumabat\n";

cout << "Alilem was noted for being the center of the district government of comandancia politico-militar” of Amburayan. This commandancia was composed of Alilem, Sigay, Suyo, Tagudin, Sudipen, San Gabriel and Bakun.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Banayoyo. \n";

cout << "Mayor: Virgilio G. Galanga\n";

cout << "During World War II, Banayoyo was once the seat of ongoing local Philippine Commonwealth Military and Ilocano Guerilla Resistance Outfit, under the command of Army Major Walter M. Cushing, a fearless American fighter.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Bantay. \n";

cout << "Mayor: Samuel C. Parilla\n";

cout << "Bantay got its name from the Ilocano word, to guard, which was to guard the image of Our Lady of Charity (Apo Caridad) in her sanctuary. The early Spanish settlers made the town beautiful by building the 'tribunal', otherwise known as the town hall, the church, bell tower, roads and streets by forced labor. St. Bantay is home to a mountain range that overlooks the Cagayan Valley and Babuyan Islands. The range is a popular tourist destination with hiking trails, forests, and springs. It's also home to unique species like wild pigs and monkeys.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Burgos. \n";

cout << "Mayor: Nathaniel D. Escobar\n";

cout << "Burgos came into existence in 1831 when Father Bernardino Logo was able to convert many natives into the folds of Christianity. The resulting town became Nueva Coveta. It was envied by its neighbors because of its peace and order, as well as its progress, since it sold its resulting products in places as far as Pangasinan and Tarlac. Burgos became a township of Santa Maria in the latter period of Ilocos Sur's Spanish era. It was later named in honor of Father José Burgos.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Cabugao. \n";

cout << "Mayor: Josh Edward S. Cobangbang\n";

cout << "The municipality is predominantly agricultural. The dominant crops are rice, tobacco, tomato, onion, and corn. As the municipality is bordering along the China Sea, Fish is also a major product. The municipality is under the leadership of the Honorable Josh Edward S. Cabugao's white sand beaches are popular for swimming, picnics, and hiking. The Cabugao Public Beach and Park is a municipality-owned beach that's available for rent for events.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Caoayan. \n";

cout << "Mayor: Germelina S. Goulart\n";

cout << "The town is also known for its loom weaving which dates back before the Spanish Regime. The Municipality of Caoayan envisions itself to be an environmentally conscious tourist destination and home of original Abel Iloko led by empowered, responsible and dedicated Caoayanos. Caoayan has many natural attractions, including the Mestizo River, which was part of the Galeon Trade route during the Spanish Era. The town is also surrounded by rice paddies, hills, and greenery. \n";

break;

}

case 7: {

cout << "You have chosen the municipality of Cervantes. \n";

cout << "Mayor: Pablito Benjamin P. Maggay II\n";

cout << "The municipality is officially the Summer Capital of Ilocos Sur. It has a relatively cooler climate than most of lowland Ilocos Sur due to its geographical location and proximity to Mountain Province and Benguet. The municipality is home to the Bessang Pass Natural Monument.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Galimuyod. \n";

cout << "Mayor: Jessie B. Balingsat\n";

cout << "This town, formerly known as Cabisilan, was once the biggest barrio of Candon during the Spanish Regime. A land dispute between them and residents of neighboring Sapang, another barrio of Candon, resulted in a gin-nuyod (Ilocano for tug-of-war) contest, a common game during those days, to settle it. The people of Cabisilan won over the people of Sapang, making Cabisilan the center of barrios near it. The old folks renamed the barrio Galimuyod, from the Ilocano words tali (rope) and ginuyod (pulled).\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Gregorio del Pilar. \n";

cout << "Mayor: Henry S. Gallardo\n";

cout << "Formerly named Concepcion (in honor of its patron saint, Nuestra Senora de Concepcion), it was renamed after general Gregorio del Pilar by virtue of Republic Act No. 1246 on June 10, 1955,[5] sponsored by Congressman Ricardo Gacula. The municipality was the site of the Battle of Tirad Pass where General del Pilar fought to the death against the Americans. The town got its name after general Gregorio del Pilar.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Lidlidda. \n";

cout << "Mayor: Sherwin P. Tomas\n";

cout << "The Lidlidda Protected Landscape, also known as the Lidlidda-Banayoyo Protected Landscape, is a protected area of natural springs and surrounding mountain forests in Ilocos Sur on the island of Luzon in the Philippines. It is an important watershed providing the agricultural and household water requirements of the communities in the municipalities of Lidlidda and Banayoyo. It was established in 1936 as the Lidlidda Watershed Forest Reserve through Proclamation No. 79 signed by President Manuel Luis Quezon.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Magsingal. \n";

cout << "Mayor: Alrico A. Favis\n";

cout << "The town is known for its rich history, beautiful landscapes, and friendly locals. One of the most interesting things about Magsingal is that it is home to the oldest church in Ilocos Sur, the St. William's Cathedral. This magnificent structure was built in 1769 and is a must-visit for history buffs. Magsingal is surrounded by rolling hills, beaches, and lush greenery, making it a great destination for outdoor enthusiasts and nature lovers. Magsingal has many historical landmarks and museums, including the Magsingal Museum, which was originally built as a convent in the late 18th century. The Burgos Museum, an ancestral house built in 1788, is also a historical building associated with the martyred priest, Fr. Jose Burgos.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Nagbukel. \n";

cout << "Mayor: Timoteo M. Cabrera\n";

cout << "The name of the municipality was thought to have come from the round shape of one of the hills in the area. People in the area would utter, Anian nga nagbukel (Ilocano meaning How round it is.). In 1896, Nagbukel became a town under the Spanish Government. It was only in 1899 when the town became a regular municipality.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Narvacan. \n";

cout << "Mayor: Pablito Sanidad Sr.\n";

cout << "The municipality of Narvacan in Ilocos Sur, Philippines got its name from an incident in the 15th century, when Spanish explorers were shipwrecked on the coast and asked for a native name, which they misunderstood as Narvacan. It was established as a township in 1576 and is currently a second class municipality. The primary industry is agriculture, with rice farming being the main economic activity. It has public services like health centers, schools, police, and courts to serve its population of over 42,000 residents. Infrastructure includes roads, bridges, water systems, and electric cooperatives.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Quirino. \n";

cout << "Mayor: Allen L. Nimo Jr. \n";

cout << "Formerly known as Angaki (also spelled Angkaki in some sources), the municipality was renamed in June 1964 to Quirino in honor of Elpidio Quirino, an Ilocos Sur native who served as the sixth President of the Philippines.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Salcedo. \n";

cout << "Mayor: Grazielle G. Itchon \n";

cout << "Formerly known as Baugen, it was renamed to Salcedo by virtue of Republic Act No. 1627 after the Spanish conquistador Juan de Salcedo on June 20, 1957. The people here in Salcedo are engaged in farming, producing food crops, mostly rice and tobacco.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of San Emilio. \n";

cout << "Mayor: Joey Warren A. Bragado\n";

cout << "Famous products here in San Emilio are the Tapey, a rice wine made by the indigenous Bago Tribe in San Emilio. During the festival, each village sets up a booth filled with local products like tapey rice wine.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of San Ildefonso. \n";

cout << "Mayor: Christian Daniel Basi” A. Purisima\n";

cout << "Since the beginning of its existence up to the present, San Ildefonso has been a predominantly agricultural area. Rice, corn, sugarcane, vegetables and root crops are the primary crops raised by the farmers. The town got its name from Saint Ildephonsus.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of San Juan. \n";

cout << "Mayor: Ma. Elaine A. Sarmiento\n";

cout << "San Juan, is known for being the Buri Capital of Ilocos Sur because it produces most of the goods made of buri leaf in the province. San Juan is also well–known for its woven mats, hats and baskets all throughout the Ilocos region. The town got its name from its patron saint, Saint John the Baptist.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of San Vicente. \n";

cout << "Mayor: Jonan D. Tabanda\n";

cout << "The municipality's name came from the name of Saint Vincent Ferrer, whose winged statue was found inside a box entangled in fishing nets. The fishermen consulted this matter to the friars in Villa Fernandina (now Vigan), who identified the person depicted by the statue. One of the notable industries of llocos Sur is furniture making. The industry is said to have started in the municipality of San Vicente in 1946 after World War II. Carpenters who pioneered the venture produced small wooden chairs locally called taborete as their initial products.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Santa. \n";

cout << "Mayor: Jesus B. Bueno Jr.\n";

cout << "Due to Santa's natural setting (the ridge of Mount Tetas de Santa in the east, the winding Abra River and delta in the north and NW of Santa; and the South China Sea to the west), then Governor-General of the Philippines Theodore Roosevelt Jr. on his visit in 1925 exclaimed: The mountain in the east, the winding roping river in the north, and the immense sea in the west make Santa a poetic town.”\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Santa Catalina. \n";

cout << "Mayor: Edgar R. Rapanut\n";

cout << "When the Augustinians were busy with the Christianization of the Ilocos Region, a group of missionaries sailed westward through the river known as El Mestizo to the place now called Santa Catalina. The feast of the town is celebrated every 25th day of November to celebrate the feast day of Saint Catherine of Alexandria (the town's patron saint).\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Santa Cruz. \n";

cout << "Mayor: Teresita C. Valle\n";

cout << "The place now known as Santa Cruz was the site where Captain Juan de Salcedo landed to get provisions, especially water, on his way to pacify the North. As soon as they came ashore, his men went immediately to the top of the highest sand dune and planted a big wooden cross to signify the place had been conquered by the white men (like what they did later in Santa Catalina). This cross is visible to mariners passing by, often describing the place as Santa Cruz. The cross may have vanished, but the name Santa Cruz stuck, especially with natives who became Christians.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Santa Lucia. \n";

cout << "Mayor: Mayor Joseph Simon Valdez\n";

cout << "The town celebrates its annual fiesta on December 13, the feast of its patroness, Saint Lucy. It is one of the oldest towns in the Ilocos Region. The name Santa Lucia was given in 1586 by the Augustinian friars in honor of the town’s Patron Saint Lucy through the Ecclesiastical Power of Spain in Manila. But the original name was Kaog before the evangelization of Igorots who inhabited the town and later became Dumangague during the Spanish colonization in the year 1572 by Captain Juan de Salcedo, a Spanish conquistador colonized the region of Ilocos Sur and founded Vigan as capital of the province.\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Santa Maria. \n";

cout << "Mayor: Brigido C. Camarillo Jr. \n";

cout << "The Santa Maria Church is an attraction to tourists and Catholics in Ilocos Sur. It is a reminder of the four centuries of Spanish domination of that area and a unique structure with a diversified architectural design of bricks and mortar. It was built on top of a hill, a lookout and a citadel as well as a religious center during the early administration of the region by friars and soldiers of Spain.\n";

break;

}

case 25: {

cout << "You have chosen the municipality of Santiago. \n";

cout << "Mayor: Josefino E. Miranda\n";

cout << "Santiago, Ilocos Sur is known for its rich history, picturesque landscapes, and friendly locals such as the Santiago Apostol Parish Church is the oldest church in Ilocos Sur, built in the 18th century. Juan Luna's ancestral home where it is the birthplace of the famous Filipino painter, Juan Luna, and now a museum. Santiago Cove which is also known as the Boracay of Ilocos Sur, this cove has white sand and clear waters. \n";

break;

}

case 26: {

cout << "You have chosen the municipality of Santo Domingo. \n";

cout << "Mayor: Bryan Dexter V. Tadena\n";

cout << "The name of the municipality came from its old moniker, Paggappuan ti Santol iti Domingo, an Ilocano term meaning The source of the Santol sold every Sunday. Santol (Sandoricum koetjape) is the name of the tree bearing round, yellowish fruits growing in abundance in the municipality, notably in Barangay Pussuac.\n";

break;

}

case 27: {

cout << "You have chosen the municipality of Sigay. \n";

cout << "Mayor: Carlo Crisanto P. Peredo\n";

cout << "Sigay in Ilocos Sur is known for its natural beauty, including the tallest waterfall in the region which is the Aw-asen Falls, a 142-foot waterfall in a remote area with fresh spring water that's safe to drink. The falls are surrounded by lush greenery and are a popular destination for nature lovers and adventurers. Sigay is known for its high-quality Robusta coffee, which won first place in the 2021 Philippine Coffee Quality Competition. The soil and climate in Sigay are ideal for coffee plantations. Sigay is rich in natural resources and has a temperate to cold climate. The municipality is bordered by rivers on both ends, including the Quinibor Rivers to the north and the Ida and Suyo Rivers to the south.\n";

break;

}

case 28: {

cout << "You have chosen the municipality of Sinait. \n";

cout << "Mayor: Glenn B. Guzman\n";

cout << "Sinait is known as the Garlic Center of the North” since 1970 because of the fact that the said Municipality found in the northernmost tip of the province of Ilocos Sur is the center of garlic trading in the whole Northern Luzon in which thousands of traders and buyers coming from all parts of the country flock every Friday to the Sinait Public Market now the Sinait Food Terminal Center (SFTC) just to buy famous garlic of Sinait. Sinait has many tourist attractions, including the San Nicolas de Tolentino Parish Church, Imelda's Cove, Pikkang Falls, and the Libunao Protected Area Landscape. \n";

break;

}

case 29:{

cout << "You have chosen the municipality of Sugpon. \n";

cout << "Mayor: Daniel C. Laño, Jr.\n";

cout << "Sugpon is the southernmost town of the provinces of Ilocos Sur. In fact, it is one of the biggest towns of the provinces in terms of its original land area. Generally, the municipality is laid upon a wild and rugged territory where verdant hills and mountains abound, added to the lustre and beauty of the numerous creeks and streams that serve as tributaries of the mighty and legendary Amburayan River. \n";

break;

}

case 30:{

cout << "You have chosen the municipality of Suyo. \n";

cout << "Mayor: Mario B. Subagan\n";

cout << "Suyo is a Municipality of Ilocos Sur, uniquely located in a watershed, the Chico River Watershed. As such it can aptly be called Watershed Town” distinctly characterized by mountainous terrains of tropical hardwood forest, drained by sparkling cascades of clean river tributaries creating awesome waterfalls. Some of the landmarks in Suyo include Mt. Tapao, Burayok Falls, Mount Balungabing, Mount Tibik, Timmorre, Dawara Falls, Sanbays ni Ragsak, Suyo Eco Mountain Resort, and Kaman-iti Falls. \n";

break;

}

case 31:{

cout << "You have chosen the municipality of Tagudin. \n";

cout << "Mayor: Roque S. Verzosa Jr.\n";

cout << "Tagudin is a small town located in the province of Ilocos Sur, Philippines. It is known as the Rice Granary of Ilocos Sur due to its vast rice fields that produce high-quality rice. Aside from being an agricultural town, Tagudin is also rich in history and culture. During World War II, Tagudin was the site of the Base Hospital of the United States Armed Forces in the Philippines-Northern Luzon (USAFIP-NL). The Bessang Pass Natural Monument, a protected area that was the site of a World War II battle, is also a hidden gem in Tagudin\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}//IFMUNICIPALITIES

}

else if (ilocos == 3){

cout << "You have chosen La Union." << endl;

cout << "La Union has a total population of 822,352 as of 2020." << endl;

cout << "Its area is 1,499.28 in kilometer squared." << endl;

cout << "Has 1 City, 19 municipalities, and 576 barangays." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M. Type N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c') {

char citybarangays;

cout << "Here are all the Cities in La Union: " << endl;

cout << "San Fernando - Capital City and the Regional Center of Ilocos";

cout << "Would you like to find out more about San Fernando and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(SanFernandoBrgys)/sizeof(SanFernandoBrgys[0]);

cout << "Mayor: Hermenegildo A. Gualberto" << endl;

cout << "The City of San Fernando is a 3rd class component city. It became the 'cabecera' or provincial capital on the same day that La Union became a province in 1850. It serves as the gateway to trade and commerce to the North and the culture and heritage of Ilocandia.\n";

cout << "The City of San Fernando's ZIP code is 2500.\n";

cout << "According to the 2020 census, its population is 125,640.\n";

cout << "Here are all the barangays in San Fernando: " << endl;

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SanFernandoBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in La Union: " << endl;

cout << "1. Agoo\n";

cout << "2. Aringay\n";

cout << "3. Bacnotan\n";

cout << "4. Bagulin\n";

cout << "5. Balaoan\n";

cout << "6. Bangar\n";

cout << "7. Bauang\n";

cout << "8. Burgos\n";

cout << "9. Caba\n";

cout << "10. Luna\n";

cout << "11. Naguilian\n";

cout << "12. Pugo\n";

cout << "13. Rosario\n";

cout << "14. San Gabriel\n";

cout << "15. San Juan\n";

cout << "16. Santo Tomas\n";

cout << "17. Santol\n";

cout << "18. Sudipen\n";

cout << "19. Tubao\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Agoo.\n";

cout << "Mayor: Frank O. Sibuma\n";

cout << "The countless miracle stories attributed to Apo Caridad which includes the dramatic rise of Agoo from the rubble of the July 1990 Killer Quake and religious structures such as Our Lady of Lourdes Grotto, Basilica of Our Lady of Charity and Plaza de la Virgen have made the town a major religious center of the north. Agoo was a major port for Chinese and Japanese traders before the Spanish closed the Philippines to foreign trade. The Japanese left Agoo after the port was closed, but they taught the locals valuable skills like fish farming, rice cultivation, and weapon production.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Aringay.\n";

cout << "Mayor: Benjamin O. Sibuma\n";

cout << "Popular for its Bangus Industry, the municipality also serves as home for the Philippine National Police Regional Training Center. Aringay is also the hometown of the country's first Ms. Universe, Ms. Gloria Diaz.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Bacnotan.\n";

cout << "Mayor: Divina C. Fontanilla\n";

cout << "It is popularly known as the Home of Mushroom, Silk, and Honey. This town is also home to Holcim Cement Plant, the State University, and the fisheries research center among others. Surfing has likewise caught up with the trend in the neighboring San Juan town.";

break;

}

case 4: {

cout << "You have chosen the municipality of Bagulin.\n";

cout << "Mayor: Virgilio C. Flor";

cout << "Bagulin is located on the eastern part of La Union bordering Kapangan, Benguet. It is famous for its broom-making industry because of the abundance of tiger grass. \n";

break;

}

case 5: {

cout << "You have chosen the municipality of Balaoan.\n";

cout << "Mayor: Aleli U. Concepcion\n";

cout << "Balaoan is one of the oldest municipalities in La Union. Balaoan holds its Parochial Fiesta every September 9 & 10 and Panagyaman Festival on December 18-22 of the year.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Bangar.\n";

cout << "Mayor: Joy P. Merin\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Bauang.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Burgos.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Caba.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Luna.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Naguilian.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Pugo.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Rosario.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of San Gabriel.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of San Juan.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Santo Tomas.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Santol.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Sudipen.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Tubao.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

}

else if (ilocos == 4){

cout << "You have chosen Pangasinan." << endl;

cout << "Pangasinan has a total population of 3,163,190 as of 2020." << endl;

cout << "Its are ais 5,490.59 in kilometer squared." << endl;

cout << "It has 4 cities, 44 municipalities, and 1,364 barangays." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M. Type N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c') {

char citybarangays;

cout << "Here are all the Cities in Pangasinan: " << endl;

cout << "1. Alaminos\n";

cout << "2. Dagupan\n";

cout << "3. San Carlos\n";

cout << "4. Urdaneta\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

int barangayCount = sizeof(AlaminosBrgys)/sizeof(AlaminosBrgys[0]);

cout << "You have chosen Alaminos.\n";

cout << "Mayor: Arthur del Fierro Celeste\n";

cout << "The City of Alaminos is a 4th class component city. It is known for the world-renowned Hundred Islands National Park which is composed of 124 islands, the Cuenco Cave, Pilgrimage Island, Children's Island, and Bolo Beach.\n";

cout << "The City of Alaminos' ZIP code is 2404.\n";

cout << "According to the 2020 census, its total population is 99,397.\n";

cout << "Here are all the barangays in Alaminos:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << AlaminosBrgys[i] << "\n";

}

break;

}

case 2: {

int barangayCount = sizeof(DagupanBrgys)/sizeof(DagupanBrgys[0]);

cout << "You have chosen of Dagupan.\n";

cout << "Mayor: Belen T. Fernandez\n";

cout << "The City of Dagupan is a 1st class independent component city located in the province of Pangasinan. It is known as the Bangus Capital of the Philippines and it is a major commercial and financial center north of Manila.\n";

cout << "The City of Dagupan's ZIP code is 2400.\n";

cout << "According to the 2020 census, its total population is 174,302.\n";

cout << "Here are all the barangays in Dagupan:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << DagupanBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(SanCarlosBrgys)/sizeof(SanCarlosBrgys[0]);

cout << "You have chosen San Carlos.\n";

cout << "Mayor: Julier Resuello\n";

cout << "The City of San Carlos is a 3rd class component city and it is a major trading center of bamboo and the best producer of carabao mangoes.\n";

cout << "The City of San Carlos' ZIP code is 2420.\n";

cout << "According to the 2020 census, its total population is 205,424.\n";

cout << "Here are all the barangays in San Carlos:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SanCarlosBrgys[i] << "\n";

}

break;

}

case 4:{

int barangayCount = sizeof(UrdanetaBrgys)/sizeof(UrdanetaBrgys[0]);

cout << "You have chosen Urdaneta.\n";

cout << "Mayor: Julio Parayno III\n";

cout << "The City of Urdaneta is a 2nd class component city and it is among the region's cleanest, greenest, and most livable cities. It is a trading hub of Pangasinan and such, there is a 'BAGSAKAN' or trading post for most fruits and vegetables.\n";

cout << "The City of Urdaneta's ZIP code is 2428.\n";

cout << "According to the 2020 census, its total population is 144,577.\n";

cout << "Here are all the barangays in Urdaneta:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << UrdanetaBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(PangasinanMuni)/sizeof(PangasinanMuni[0]);

char municipal;

cout << "Here are all the municipalities in Pangasinan: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << PangasinanMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Agno.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Aguilar.\n";

break;

}

case 3:{

cout << "1. You have chosen the municipality of Alcala.\n";

break;

}

case 4:{

cout << "1. You have chosen the municipality of Anda.\n";

break;

}

case 5:{

cout << "1. You have chosen the municipality of Asingan.\n";

break;

}

case 6:{

cout << "1. You have chosen the municipality of Balungao.\n";

break;

}

case 7:{

cout << "1. You have chosen the municipality of Bani.\n";

break;

}

case 8:{

cout << "1. You have chosen the municipality of Basista.\n";

break;

}

case 9:{

cout << "1. You have chosen the municipality of Bautista.\n";

break;

}

case 10:{

cout << "1. You have chosen the municipality of Bayambang.\n";

break;

}

case 11:{

cout << "1. You have chosen the municipality of Binalonan.\n";

break;

}

case 12:{

cout << "1. You have chosen the municipality of Binmaley.\n";

break;

}

case 13:{

cout << "1. You have chosen the municipality of Bolinao.\n";

break;

}

case 14:{

cout << "1. You have chosen the municipality of Bugallon.\n";

break;

}

case 15:{

cout << "1. You have chosen the municipality of Burgos.\n";

break;

}

case 16:{

cout << "1. You have chosen the municipality of Calasiao.\n";

break;

}

case 17:{

cout << "1. You have chosen the municipality of Dasol.\n";

break;

}

case 18:{

cout << "1. You have chosen the municipality of Infanta.\n";

break;

}

case 19:{

cout << "1. You have chosen the municipality of Labrador\n";

break;

}

case 20:{

cout << "1. You have chosen the municipality of Laoac.\n";

break;

}

case 21:{

cout << "1. You have chosen the municipality of Lingayen.\n";

break;

}

case 22:{

cout << "1. You have chosen the municipality of Mabini.\n";

break;

}

case 23:{

cout << "1. You have chosen the municipality of Malasiqui.\n";

break;

}

case 24:{

cout << "1. You have chosen the municipality of Manaoag.\n";

break;

}

case 25:{

cout << "1. You have chosen the municipality of Mangaldan.\n";

break;

}

case 26:{

cout << "1. You have chosen the municipality of Mangatarem.\n";

break;

}

case 27:{

cout << "1. You have chosen the municipality of Mapandan\n";

break;

}

case 28:{

cout << "1. You have chosen the municipality of Natividad.\n";

break;

}

case 29:{

cout << "1. You have chosen the municipality of Pozorrubio.\n";

break;

}

case 30:{

cout << "1. You have chosen the municipality of Rosales.\n";

break;

}

case 31:{

cout << "1. You have chosen the municipality of San Fabian.\n";

break;

}

case 32:{

cout << "1. You have chosen the municipality of San Jacinto.\n";

break;

}

case 33:{

cout << "1. You have chosen the municipality of San Manuel.\n";

break;

}

case 34:{

cout << "1. You have chosen the municipality of San Nicolas.\n";

break;

}

case 35:{

cout << "1. You have chosen the municipality of San Quintin.\n";

break;

}

case 36:{

cout << "1. You have chosen the municipality of Santa Barbara.\n";

break;

}

case 37:{

cout << "1. You have chosen the municipality of Santa Maria.\n";

break;

}

case 38:{

cout << "1. You have chosen the municipality of Santo Tomas.\n";

break;

}

case 39:{

cout << "1. You have chosen the municipality of Sison.\n";

break;

}

case 40:{

cout << "1. You have chosen the municipality of Sual.\n";

break;

}

case 41:{

cout << "1. You have chosen the municipality of Tayug.\n";

break;

}

case 42:{

cout << "1. You have chosen the municipality of Umingan.\n";

break;

}

case 43:{

cout << "1. You have chosen the municipality of Urbiztondo.\n";

break;

}

case 44:{

cout << "1. You have chosen the municipality of Villasis.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

}

}

break; //CASE1

}//CASE1KULANGMUNI

case 2: { //CASE2

char prov;

char cmb;

cout << "REGION II - Cagayan Valley" << endl;

cout << "Cagayan Valley is located in Luzon" << endl;

cout << "It has a total population of 3,685,744 people as of 2020." << endl;

cout << "Its area is 298.37 in kilometer squared." << endl;

cout << "It has 5 provinces, 4 cities, 89 municipalities, and 2,311 barangays." << endl;

cout << "Would you like to find out about the different provinces in Cagayan Valley? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int cagayan;

cout << "Here are the provinces in Cagayan Valley: " << endl;

cout << "1. Batanes" << endl;

cout << "2. Cagayan" << endl;

cout << "3. Isabela" << endl;

cout << "4. Nueva Viscaya" << endl;

cout << "Choose from 1-4 to find out to choose if you want to find out more about the different provinces: ";

cin >> cagayan;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (cagayan == 1){

cout << "You have chosen Batanes." << endl;

cout << "Batanes has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if(cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Batanes: " << endl;

cout << "1. Basco - Capital of Batanes.\n";

cout << "2. Itbayat\n";

cout << "3. Ivana\n";

cout << "4. Mahatao\n";

cout << "5. Sabtang\n";

cout << "6. Uyugan\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Basco - Capital of Batanes.\n";

cout << "Mayor: German A. Caccam \n";

cout << "Basco is the most populous town in Batanes and it is located on Batan Island, the second largest among the Batanes Islands, the northernmost islands of the Philippines. The town has a domestic airport, Basco Airport, serving flights from Manila, Tuguegarao, and Itbayat. The Basco Lighthouse is one of the landmarks.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Itbayat.\n";

cout << "Mayor: Sabas C. de Sagob \n";

cout << "Aside from being the largest island in the province, it is also considered the northernmost populated island in the country. The area's landscape mostly comprises rolling cliffs with rocky shores and about 83 km of coastline.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Ivana.\n";

cout << "Mayor: Celso B. Batallones \n";

cout << "The first landing place of the missionaries and Spanish government officials when the Spanish government decided to annex the Batanes islands in 1783. It became the second most important town of the province during the Spanish period, second to Basco after the annexation.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Mahatao.\n";

cout << "Pedro F. Poncio \n";

cout << "Mahatao was founded in 1783 (Blending of Cultures: The Batanes 1668-1888 p. 114) but was formally established in 1787 after it had enough families and a gobernadorcillo. Mahatao has a most remarkable archaeological story."; break;

}

case 5: {

cout << "You have chosen the municipality of Sabtang.\n";

cout << "Mayor: Prescila A. Babalo\n";

cout << "Sabtang Island is also widely famous for its white sand Morong Beach where the Mahayao Arch, Sabtang's most iconic landmark, can be found. Other attractions in the area include San Jose de Ivana church, Sta. Rosa de Lima Chapel, Sabtang Lighthouse, and others.";

break;

}

case 6: {

cout << "You have chosen the municipality of Uyugan.\n";

cout << "Mayor: Jonathan Enrique V. Nanud Jr.\n";

cout << "Uyugan, located in Batanes, Philippines, is known for its stunning natural landscapes, traditional Ivatan stone houses, and rich cultural heritage. It features beautiful hills, pristine beaches, and unique architecture designed to withstand harsh weather. The municipality is also recognized for its agricultural products, especially sweet potatoes and root crops, and offers a glimpse into the traditional Ivatan way of life, including local festivals and cuisine. \n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.";

break;

}

}

}

}

}

else if (cagayan == 2){

cout << "You have chosen Cagayan." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M. Type N to find out about other regions: ";

cin >> cmb;

if(cmb == 'C' || cmb == 'c'){

int barangayCount = sizeof(TuguegaraoBrgys)/sizeof(TuguegaraoBrgys[0]);

char citybarangays;

cout << "Here are all the cities in Cagayan: " << endl;

cout << "Tuguegarao - Capital of Cagayan and Regional Center of Cagayan Valley\n";

cout << "Would you like to find out more about the cities and the barangays within Tuguegarao? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

cout << "Mayor: Maila Rosario S. Ting-Que\n";

cout << "The City of Tuguegarao is a 1st class component city and the capital of Cagayan as well as its regional center and regional institutional and administrative center. It has earned the distinction of being the Center of Excellence for Higher Education, Science, and Medicine in Region II. \n";

cout << "The City of Tuguegarao's ZIP code is 3500.\n";

cout << "According to the 2020 census, its total population is 166,334.\n";

cout << "Here are all the barangays in Tuguegarao: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TuguegaraoBrgys[i] << "\n";

}

}

}

else if(cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(CagayanMuni)/sizeof(CagayanMuni[0]);

char municipal;

cout << "Here are all the municipalities in Cagayan: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << CagayanMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "1. You have chosen the municipality of Abulug.\n";

cout << "Mayor: Jesus Florencio A. Vargas. \n";

cout << "Abulug, in Northwestern Cagayan, it is known for its former silk weaving industry, agriculture and industrial products like lumber and fish\n";

break;

}

case 2:{

cout << "1. You have chosen the municipality of Alcala.\n";

break;

}

case 3:{

cout << "1. You have chosen the municipality of Allacapan.\n";

break;

}

case 4:{

cout << "1. You have chosen the municipality of Amulung.\n";

break;

}

case 5:{

cout << "1. You have chosen the municipality of Aparri.\n";

break;

}

case 6:{

cout << "1. You have chosen the municipality of Baggao.\n";

break;

}

case 7:{

cout << "1. You have chosen the municipality of Ballesteros.\n";

break;

}

case 8:{

cout << "1. You have chosen the municipality of Buguey.\n";

break;

}

case 9:{

cout << "1. You have chosen the municipality of Calayan.\n";

break;

}

case 10:{

cout << "1. You have chosen the municipality of Camalaniugan.\n";

break;

}

case 11:{

cout << "1. You have chosen the municipality of Claveria.\n";

break;

}

case 12:{

cout << "1. You have chosen the municipality of Enrile.\n";

break;

}

case 13:{

cout << "1. You have chosen the municipality of Gattaran.\n";

break;

}

case 14:{

cout << "1. You have chosen the municipality of Gonzaga.\n";

break;

}

case 15:{

cout << "1. You have chosen the municipality of Iguig.\n";

break;

}

case 16:{

cout << "1. You have chosen the municipality of Lal-lo.\n";

break;

}

case 17:{

cout << "1. You have chosen the municipality of Lasam.\n";

break;

}

case 18:{

cout << "1. You have chosen the municipality of Pamplona.\n";

break;

}

case 19:{

cout << "1. You have chosen the municipality of Penablanca.\n";

break;

}

case 20:{

cout << "1. You have chosen the municipality of Piat.\n";

break;

}

case 21:{

cout << "1. You have chosen the municipality of Rizal.\n";

break;

}

case 22:{

cout << "1. You have chosen the municipality of Sanchez-Mira.\n";

break;

}

case 23:{

cout << "1. You have chosen the municipality of Santa Ana.\n";

break;

}

case 24:{

cout << "1. You have chosen the municipality of Santa Praxedes.\n";

break;

}

case 25:{

cout << "1. You have chosen the municipality of Santa Teresita.\n";

break;

}

case 26:{

cout << "1. You have chosen the municipality of Santo Nino.\n";

break;

}

case 27:{

cout << "1. You have chosen the municipality of Solana.\n";

break;

}

case 28:{

cout << "1. You have chosen the municipality of Tuao.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}//MUNICIPALITIES

}

else if (cagayan == 3){

cout << "You have chosen Isabela: ";

cout << "Would you like to find out about the cities or municipalities? Choose from C or M. Type N to find out about other regions: ";

cin >> cmb;

if(cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the Cities in Isabela: " << endl;

cout << "1. Cauayan\n";

cout << "2. Ilagan - Capital\n";

cout << "3. Santiago\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){//SWITCHCITYOFISABELA

case 1:{

int barangayCount = sizeof(CauayanBrgys)/sizeof(CauayanBrgys[0]);

cout << "You have chosen the city of Cauayan.\n";

cout << "Mayor: Caesar 'Jaycee' Dy Jr.\n";

cout << "The City of Cauayan is a 2nd class component city. Isabela is home to Magat High Rise Dam and Tourism Complex known to be the highest and biggest dam in Asia at the time of its construction. Isabela comprises an aggregate land area of 10,665 square kilometers, representing almost 40 percent of the regional territory.\n";

cout << "The City of Cauayan's ZIP code is 3305.\n";

cout << "According to the 2020 census, its total population is 143,403.\n";

cout << "Here are all the barangays in Cauayan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CauayanBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(IlaganBrgys)/sizeof(IlaganBrgys[0]);

cout << "You have chosen the city of Ilagan.\n";

cout << "Mayor: Evelyn C. Diaz.\n";

cout << "The City of Ilagan is a 1st class component city and the capital of Isabela. It is also known as the Corn Capital of the Philippines, holds an ASEAN Clean Tourist City, and the safest place to conduct a sports event. \n";

cout << "The City of Ilagan's ZIP code is 3300.\n";

cout << "According to the 2020 census, its total population is 158,218.\n";

cout << "Here are all the barangays in Ilagan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << IlaganBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(SantiagoBrgys)/sizeof(SantiagoBrgys[0]);

cout << "You have chosen the city of Santiago\n";

cout << "Mayor: Alyssa Sheena T. Dy\n";

cout << "The City of Santiago is home to several business enterprises, banking institutions, educational entities, as well as manufacturing companies. It is considered as the Commercial and Industrial Center of Cagayan Valley.\n";

cout << "The City of Santiago's ZIP code is 3311.\n";

cout << "According to the 2020 census, its total population is 148,580.\n";

cout << "Here are all the barangays in Santiago: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SantiagoBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}//CITIESISABELA

else if(cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(IsabelaMuni)/sizeof(IsabelaMuni[0]);

char municipal;

cout << "Here are all the municipalities in Isabela: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << IsabelaMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Alicia.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Angadanan.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Aurora.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Benito Soliven.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Burgos.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Cabagan.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Cabatuan.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Cordon.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Delfin Albano.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Dinapigue.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Echague.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Gamu.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Jones.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Luna.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Maconacon.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Mailig.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Naguilian.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Palanan.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Quezon.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of Quirino.\n";

break;

}

case 21:{

cout << "You have chosen the municipality of Ramon.\n";

break;

}

case 22:{

cout << "You have chosen the municipality of Reina Mercedes.\n";

break;

}

case 23:{

cout << "You have chosen the municipality of Roxas.\n";

break;

}

case 24:{

cout << "You have chosen the municipality of San Agustin.\n";

break;

}

case 25:{

cout << "You have chosen the municipality of San Guillermo.\n";

break;

}

case 26:{

cout << "You have chosen the municipality of San Isidro.\n";

break;

}

case 27:{

cout << "You have chosen the municipality of San Manuel.\n";

break;

}

case 28:{

cout << "You have chosen the municipality of San Mariano.\n";

break;

}

case 29:{

cout << "You have chosen the municipality of San Matero.\n";

break;

}

case 30:{

cout << "You have chosen the municipality of San Pablo.\n";

break;

}

case 31:{

cout << "You have chosen the municipality of Santa Maria.\n";

break;

}

case 32:{

cout << "You have chosen the municipality of Santo Tomas.\n";

break;

}

case 33:{

cout << "You have chosen the municipality of Tumauini.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (cagayan == 4){

cout << "You have chosen Nueva Viscaya: " << endl;

cout << "Nueva Viscaya does not have any cities. Type M to see the municipalities or N if you want to find out about other regions: ";

cin >> cmb;

if(cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Nueva Viscaya: " << endl;

cout << "1. Alfonso Castaneda\n";

cout << "2. Ambaguio\n";

cout << "3. Aritao\n";

cout << "4. Bagabag\n";

cout << "5. Bambang\n";

cout << "6. Bayombong - Capital of Nueva Viscaya\n";

cout << "7. Diadi\n";

cout << "8. Dupax Del Norte\n";

cout << "9. Dupax Del Sur\n";

cout << "10. Kasibu\n";

cout << "11. Kayapa\n";

cout << "12. Quezon\n";

cout << "13. Santa Fe\n";

cout << "14. Solano\n";

cout << "15. Villaverde\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Alfonso Castaneda.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Ambaguio.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Aritao.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Bagabag.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Bambang.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Bayombong.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Diadi.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Dupax Del Norte.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Dupax Del Sur.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Kasibu.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Kayapa.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Quezon.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Santa Fe.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Solano.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Villaverde.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}//MUNICIPALITIESOFNUEVAVISCAYA

}

else if (cagayan == 5){

cout << "You have chosen Quirino: " << endl;

cout << "Quirino does not have any cities. Type M to find out about the municipalities or type N to find out about other regions: ";

cin >> cmb;

if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Quirino: " << endl;

cout << "1. Aglipay\n";

cout << "2. Cabarroguis\n";

cout << "3. Diffun\n";

cout << "4. Maddela\n";

cout << "5. Nagtipunan\n";

cout << "6. Sagudav\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Aglipay.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Cabarroguis.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Diffun.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Maddela.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Nagtipunan.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Sagudav.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break; //CASE2

}

case 3: {

char prov;

char cmb;

cout << "REGION III - Central Luzon" << endl;

cout << "Central Luzon has the largest contiguous flat land area in the Philippines. It is known as the Rice Granary of the Philippines." << endl;

cout << "It has a total of 12,422,172 people as of 2020." << endl;

cout << "It has 7 provinces, 14 cities, 116 municipalities, and 3,102 barangays." << endl;

cout << "Would you like to find out about the different provinces in Central Luzon? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int centrall;

cout << "Here are all the provinces in Central Luzon: " << endl;

cout << "1. Aurora\n";

cout << "2. Bataan\n";

cout << "3. Bulacan\n";

cout << "4. Nueva Ecija\n";

cout << "5. Pampanga\n";

cout << "6. Tarlac\n";

cout << "7. Zambales\n";

cout << "Choose from 1-7 to find out to choose if you want to find out more about the different provinces: ";

cin >> centrall;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (centrall == 1){

cout << "You have chosen Aurora." << endl;

cout << "Aurora does not have any cities. Type M to find out more about the municipalities or type N to find out about other regions: ";

cin >> cmb;

if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Aurora: " << endl;

cout << "1. Baler - Capital of Aurora\n";

cout << "2. Casiguran\n";

cout << "3. Dilasag\n";

cout << "4. Dinalungan\n";

cout << "5. Dingalan\n";

cout << "6. Dipaculao\n";

cout << "7. Maria Aurora\n";

cout << "8. San Luis\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Aurora.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Casiguran.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Dilasag.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Dinalungan.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Dingalan.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Dipaculao.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Maria Aurora.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of San Luis.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}//MUNICIPALITIESAURORA

}

else if (centrall == 2){

cout << "You have chosen Bataan." << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Bataan: " << endl;

cout << "Balanga - Capital of Bataan\n";

cout << "Would you like to find out more about Bataan and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(BalangaBrgys)/sizeof(BalangaBrgys[0]);

cout << "You have chosen the city of Balanga.\n";

cout << "Mayor: Francis Anthony S. Garcia\n";

cout << "The City of Balanga is a 2nd class component city. It is the center of commerce and industry and is one of the richest towns in Bataan. It is also known for the Balanga Cathedral and the Balanga City Plaza.\n";

cout << "The City of Balanga's ZIP code is 2100.\n";

cout << "According to the 2020 census, its total population is 104,173.\n";

cout << "Here are all the barangays in Balanga:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BalangaBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Bataan: " << endl;

cout << "1. Abucay\n";

cout << "2. Bagac\n";

cout << "3. Dinalupihan\n";

cout << "4. Hermosa\n";

cout << "5. Limay\n";

cout << "6. Mariveles\n";

cout << "7. Morong\n";

cout << "8. Orani\n";

cout << "9. Orion\n";

cout << "10. Pilar\n";

cout << "11. Samal\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Abucay.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Bagac.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Dinalupihan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Hermosa.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Limay.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Mariveles.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Morong.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Orani.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Orion.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Pilar.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Samal.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (centrall == 3){

cout << "You have chosen Bulacan." << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Bulacan: " << endl;

cout << "1. Meycauayan\n";

cout << "2. San Jose del Monte\n";

cout << "3. Malolos - Capital of Bulacan\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(MeycauayanBrgys)/sizeof(MeycauayanBrgys[0]);

cout << "You have chosen the city of Meycauayan.\n";

cout << "Mayor: Henry R. Villarica\n";

cout << "The City of Meycauayan is a 1st class component city and is one of the oldest towns in Bulacan and in the entire Philippines. Meycauayan is rather known for their jewelry making, leather crafts, and their battery recycling industry.\n";

cout << "The City of Meycauayan's ZIP code is 3020.\n";

cout << "According to the 2020 census, its total population is 225,673.\n";

cout << "Here are all the barangays in Meycauayan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BalangaBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(SJdMBrgys)/sizeof(SJdMBrgys[0]);

cout << "You have chosen the city of San Jose del Monte.\n";

cout << "Mayor: Arthus Robes\n";

cout << "The City of San Jose del Monte is a 1st class component city and it is known for its rich heritage, burgeoning economy, and lush landscapes. \n";

cout << "The City of San Jose del Monte's ZIP code is 3023.\n";

cout << "Here are all the barangays in San Jose del Monte: \n";

cout << "According to the 2020 census, its total population is 651,813.\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SJdMBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(MalolosBrgys)/sizeof(MalolosBrgys[0]);

cout << "You have chosen Malolos.\n";

cout << "Mayor: Christian D. Natividad\n";

cout << "The City of Malolos is a 1st class component city and the capital of Bulacan. Malolos was at the heart of Philippine nationalism and nation-building at the end of the 19th Century. The town was the site of the 1898 constitutional convention and the first Philippine Republic was established in Malolos, at the sanctuary of the Barasoain Church.\n";

cout << "The City of Malolos' ZIP code is 3000.\n";

cout << "According to the 2020 census, its total population is 261,189.\n";

cout << "Here are all the barangays in Malolos: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << MalolosBrgys[i] << "\n";

}

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Bulacan: " << endl;

cout << "1. Angat\n";

cout << "2. Balagtas\n";

cout << "3. Baliuag\n";

cout << "4. Bocaue\n";

cout << "5. Bulakan\n";

cout << "6. Bustos\n";

cout << "7. Calumpit\n";

cout << "8. Dona Remedios Trinidad\n";

cout << "9. Guiginto\n";

cout << "10. Hagonoy\n";

cout << "11. Marilao\n";

cout << "12. Norzagaray\n";

cout << "13. Pandi\n";

cout << "14. Paombong\n";

cout << "15. Plaridel\n";

cout << "16. Pulilan\n";

cout << "17. San Ildefonso\n";

cout << "18. San Miguel\n";

cout << "19. San Rafael\n";

cout << "20. Santa Maria\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Angat.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Balagtas.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Baliuag.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Bocaue.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Bulakan.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Bustos.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Calumpit.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Dona Remedios Trinidad.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Guiginto.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Hagonoy.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Marilao.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Norzagaray.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Pandi.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Paombong.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Plaridel.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Pulilan.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of San Ildefonso.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of San Miguel.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of San Rafael.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Santa Maria.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (centrall == 4){

cout << "You have chosen Nueva Ecija." << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){//incomplete

char citybarangays;

cout << "Here are all the cities in Nueva Ecija: " << endl;

cout << "1. Cabanatuan\n";

cout << "2. Gapan\n";

cout << "3. Munoz\n";

cout << "4. Palayan - Capital of Nueva Ecija\n";

cout << "5. San Jose\n";

cout << "Would you like to find out more about the cities and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the city of Cabanatuan.\n";

break;

}

case 2:{

cout << "You have chosen the city of Gapan.\n";

break;

}

case 3:{

cout << "You have chosen the city of Munoz.\n";

break;

}

case 4:{

cout << "You have chosen the city of Palayan.\n";

break;

}

case 5:{

cout << "You have chosen the city of San Jose.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(NuevaEcijaMuni)/sizeof(NuevaEcijaMuni[0]);

char municipal;

cout << "Here are all the municipalities in Nueva Ecija: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << NuevaEcijaMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Aliaga\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Bongabon\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Cabiao\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Carranglan\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Cuyapo\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Gabaldon\n";

break;

}

case 7: {

cout << "You have chosen the municipality of General Mamerto Natividad\n";

break;

}

case 8: {

cout << "You have chosen the municipality of General Tinio\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Guimba\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Jaen\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Laur\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Licab\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Llanera\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Lupao\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Nampicuan\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Pantabangan\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Penaranda\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Quezon\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Rizal\n";

break;

}

case 20: {

cout << "You have chosen the municipality of San Antonio\n";

break;

}

case 21: {

cout << "You have chosen the municipality of San Isidro\n";

break;

}

case 22: {

cout << "You have chosen the municipality of San Leonardo\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Santa Rosa\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Santo Domingo\n";

break;

}

case 25: {

cout << "You have chosen the municipality of Talavera\n";

break;

}

case 26: {

cout << "You have chosen the municipality of Talugtug\n";

break;

}

case 27: {

cout << "You have chosen the municipality of Zaragoza\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (centrall == 5){

cout << "You have chosen Pampanga." << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Pampanga: " << endl;

cout << "1. San Fernando - Capital of Pampanga and Regional Center of Central Luzon\n";

cout << "2. Angeles - Highly Urbanized City and is thus considered independent.\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1:{

int barangayCount = sizeof(SanFernandoPampangaBrgys)/sizeof(SanFernandoPampangaBrgys[0]);

cout << "You have chosen San Fernando.\n";

cout << "Mayor: Vilma B. Caluag\n";

cout << "The City of San Fernando is a 1st class component city and it is the capital of Pampanga and Regional Center of Central Luzon. It is known as the Christmas Capital of the Philippines. CNN once hailed the city as 'Asia's Christmas Capital'. A museum inside San Fernando marks the end point of the WWII Bataan Death March.\n";

cout << "The City of San Fernando's ZIP code is 2000.\n";

cout << "According to the 2020 census, its total population is 354,666.\n";

cout << "Here are all the barangays in San Fernando: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SanFernandoPampangaBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(AngelesBrgys)/sizeof(AngelesBrgys[0]);

cout << "You have chosen Angeles.\n";

cout << "Mayor: Carmelo G. Lazatin Jr.\n";

cout << "The City of Angeles is a 1st class highly urbanized city and remains politically independent in the province of Pampanga. Old and historical buildings scatter around the landscape and these days it is known for the high concentration of casinos and vibrant nightlife for men.\n";

cout << "The City of Angeles' ZIP code is 2009, 2024 in Balibago, 2023 under Clark Freeport and Special Economic Zone.\n";

cout << "According to the 2020 census, its total population is 462,928.\n";

cout << "Here are all the barangays in Angeles: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << AngelesBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Pampanga: " << endl;

cout << "1. Apalit\n";

cout << "2. Arayat\n";

cout << "3. Bacolor\n";

cout << "4. Candaba\n";

cout << "5. Floridablanca\n";

cout << "6. Guagua\n";

cout << "7. Lubao\n";

cout << "8. Mabalacat\n";

cout << "9. Macabebe\n";

cout << "10. Magalang\n";

cout << "11. Masantol\n";

cout << "12. Mexico\n";

cout << "13. Minalin\n";

cout << "14. Porac\n";

cout << "15. San Luis\n";

cout << "16. San Simon\n";

cout << "17. Santa Ana\n";

cout << "18. Santa Rita\n";

cout << "19. Santo Tomas\n";

cout << "20. Sasmuan\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Apalit.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Arayat.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Bacolor.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Candaba.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Floridablanca.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Guagua.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Lubao.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Mabalacat.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Macabebe.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Magalang.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Masantol.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Mexico.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Minalin.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Porac.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of San Luis.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of San Simon.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Santa Ana.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Santa Rita.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Santo Tomas.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of Sasmuan.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (centrall == 6){

cout << "You have chosen Tarlac." << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Tarlac: " << endl;

cout << "Tarlac City - Capital\n";

cout << "Would you like to find out more about Tarlac City and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(TarlacBrgys)/sizeof(TarlacBrgys[0]);

cout << "Mayor: Maria Cristina C. Angeles\n";

cout << "Tarlac is a 1st class city and is best known for its fine foods and vast sugar and rice plantations. That it has fine cooking to offer is largely due to the fact that it is the melting pot of Central Luzon.\n";

cout << "The City of Tarlac's ZIP code is 2300.\n";

cout << "According to the 2020 census, its total population is 385,398.\n";

cout << "Here are all the barangays in Tarlac:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TarlacBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Tarlac: " << endl;

cout << "1. Anao\n";

cout << "2. Bamban\n";

cout << "3. Camiling\n";

cout << "4. Capas\n";

cout << "5. Concepcion\n";

cout << "6. Gerona\n";

cout << "7. La Paz\n";

cout << "8. Mayantoc\n";

cout << "9. Moncada\n";

cout << "10. Paniqui\n";

cout << "11. Pura\n";

cout << "12. Ramos\n";

cout << "13. San Clemente\n";

cout << "14. San Jose\n";

cout << "15. San Manuel\n";

cout << "16. Santa Ignacia\n";

cout << "17. Victoria\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Anao.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Bamban.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Camiling.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Capas.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Concepcion.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Gerona.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of La Paz.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Mayantoc.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Moncada.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Paniqui.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Pura.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Ramos.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of San Clemente.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of San Jose.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of San Manuel.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Santa Ignacia.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Victoria.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (centrall == 7){

cout << "You have chosen Zambales." << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Zambales: " << endl;

cout << "Olongapo - Highly Urbanized City and is thus considered independent.\n";

cout << "Would you like to find out more about Olongapo and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(OlongapoBrgys)/sizeof(OlongapoBrgys[0]);

cout << "Mayor: Rolen C. Paulino Jr.\n";

cout << "The City of Olongapo is a 1st class highly urbanized city situated in Zambales but it is politically independent. Decades of presence of the US naval base in Subic made Olongapo City known as a destination for rest and recreation and, subsequently, contentiously brought in an environment of risky sexual behaviours, thus, the label 'Sin City.'\n";

cout << "The City of Olongapo's ZIP code is 2200, and 2222 in Subic Special Economic and Freeport Zone\n";

cout << "According to the 2020 census, its total population is 260,317.\n";

cout << "Here are all the barangays in Olongapo:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << OlongapoBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Zambales" << endl;

cout << "1. Botolan\n";

cout << "2. Cabangan\n";

cout << "3. Candelaria\n";

cout << "4. Castillejos\n";

cout << "5. Iba - Capital of Zambales\n";

cout << "6. Masinloc\n";

cout << "7. Palauig\n";

cout << "8. San Antonio\n";

cout << "9. San Felipe\n";

cout << "10. San Marcelino\n";

cout << "11. San Narciso\n";

cout << "12. Santa Cruz\n";

cout << "13. Subic\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Botolan.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Cabangan.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Candelaria.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Castillejos.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Iba.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Masinloc.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Palauig.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of San Antonio.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of San Felipe.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of San Marcelino.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of San Narciso.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Santa Cruz.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Subic.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

case 4: {

char prov;

char cmb;

cout << "REGION IV-A - CALABARZON" << endl;

cout << "CALABARZON is an acronym of Cavite, Laguna, Batangas, Rizal, and Quezon. It identifies as the 'nucleus' of industrialization in the Philippines. It is also known as the industrial powerhouse of the Philippines. " << endl;

cout << "It has a total of 16,195,042 people as of 2020." << endl;

cout << "It has 5 provinces, 20 cities, 122 municipalities, and 4,019 barangays." << endl;

cout << "Would you like to find out about the different provinces in CALABARZON? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int calabarzon;

cout << "Here are all the provinces in CALABARZON: " << endl;

cout << "1. Batangas\n";

cout << "2. Cavite\n";

cout << "3. Laguna\n";

cout << "4. Quezon\n";

cout << "5. Rizal\n";

cout << "Choose from 1-5 to find out to choose if you want to find out more about the different provinces: ";

cin >> calabarzon;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (calabarzon == 1){

cout << "You have chosen Batangas. " << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Batangas: " << endl;

cout << "1. Batangas City - Capital of Batangas\n";

cout << "2. Lipa\n";

cout << "3. Santo Tomas\n";

cout << "4. Tanauan\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(BatangasCityBrgys)/sizeof(BatangasCityBrgys[0]);

cout << "You have chosen the city of Batangas.\n";

cout << "Mayor: Hon. Beverly Rose A. Dimacuha\n";

cout << "The City of Batangas is a 1st class component city and the capital of Batangas Province. It is classified as one of the fastest urbanizing cities in the Philippines. It is known as the Industrial Port City of CALABARZON and it is home to the Batangas International Port which is one of the busiest passenger and container terminals in the Philippines.\n";

cout << "The City of Batangas' ZIP code is 4200.\n";

cout << "According to the 2020 census, its total population is 351,437.\n";

cout << "Here are all the barangays in Batangas City: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BatangasCityBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(LipaCityBrgys)/sizeof(LipaCityBrgys[0]);

cout << "You have chosen the city of Lipa.\n";

cout << "Mayor: Eric B. Africa\n";

cout << "The City of Lipa is a 1st class component city and it is the first city charter in the Batangas Province. Lipa is known for coffee production, introduced by the Spaniards. Kapeng barako production once served an important source of income to locals, but it died out in favor of other agricultural products and commercial developments.\n";

cout << "The City of Lipa's ZIP code is 4217, 4218.\n";

cout << "According to the 2020 census, its total population is 372,931.\n";

cout << "Here are all the barangays in Lipa: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << LipaCityBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(SantoTomasBatangasBrgys)/sizeof(SantoTomasBatangasBrgys[0]);

cout << "You have chosen the city of Santo Tomas.\n";

cout << "Mayor: Arth Jhun A. Marasigan\n";

cout << "The City of Santo Tomas is a 1st class component city and is part of the Mega Manila, resulting from the continous expansion of Metro Manila. Santo Tomas is the hometown of Philippine Revolution and Philippine–American War hero Miguel Malvar, the last Filipino General to surrender to the Americans.\n";

cout << "The City of Santo Tomas' ZIP code is 4234.\n";

cout << "According to the 2020 census, its total population is 218,500.\n";

cout << "Here are all the barangays in Santo Tomas: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SantoTomasBatangasBrgys[i] << "\n";

}

break;

}

case 4:{

int barangayCount = sizeof(TanauanBrgys)/sizeof(TanauanBrgys[0]);

cout << "You have chosen the city of Tanauan\n";

cout << "Mayor: Nelson P. Collantes\n";

cout << "The City of Tanauan is a 1st clsas component city and Tanauan originated as a fortress built by natives and Augustinian Friars; the name 'Tanauan' is derived from tanaw (to look out of a window). It is also historically renowned as the hometown of Apolinario Mabini and other revolutionaries like Jose P. Laurel.\n";

cout << "The City of Tanauan's ZIP code is 4232.\n";

cout << "According to the 2020 census, its total population is 193,936.\n";

cout << "Here are all the barangays in Tanauan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TanauanBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(BatangasProvMuni)/sizeof(BatangasProvMuni[0]);

char municipal;

cout << "Here are all the municipalities in Batangas: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << BatangasProvMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Agoncillo.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Alitagtag.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Balayan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Balete.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Bauan.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Calaca.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Calatagan.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Cuenca.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Ibaan.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Laurel.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Lemery.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Lian.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Lobo.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Mabini.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Malvar.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Mataasnakahoy.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Nasugbu.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Padre Garcia.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Rosario.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of San Jose.\n";

break;

}

case 21:{

cout << "You have chosen the municipality of San Juan.\n";

break;

}

case 22:{

cout << "You have chosen the municipality of San Luis.\n";

break;

}

case 23:{

cout << "You have chosen the municipality of San Nicolas.\n";

break;

}

case 24:{

cout << "You have chosen the municipality of San Pascual.\n";

break;

}

case 25:{

cout << "You have chosen the municipality of Santa Teresita.\n";

break;

}

case 26:{

cout << "You have chosen the municipality of Taal.\n";

break;

}

case 27:{

cout << "You have chosen the municipality of Talisay.\n";

break;

}

case 28:{

cout << "You have chosen the municipality of Taysan.\n";

break;

}

case 29:{

cout << "You have chosen the municipality of Tingloy.\n";

break;

}

case 30:{

cout << "You have chosen the municipality of Tuy.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (calabarzon == 2){

cout << "You have chosen Cavite. " << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Cavite: " << endl;

cout << "1. Bacoor\n";

cout << "2. Cavite City\n";

cout << "3. Dasmarinas\n";

cout << "4. General Trias\n";

cout << "5. Imus - Capital of Cavite\n";

cout << "6. Tagaytay\n";

cout << "7. Trece Martires\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(BacoorBrgys)/sizeof(BacoorBrgys[0]);

cout << "You have chosen the city of Bacoor.\n";

cout << "Mayor: Strike Revilla\n";

cout << "The City of Bacoor is a 1st class component city and Bacoor is known because it is the first capital of the Revolutionary Government under Emilio Aguinaldo. Bacoor is one of the Philippines' cities known for its excellent seafood supply. Its popular product is mussel—locally known as tahong. Mussel is a superb source of iron, protein, and other vitamins and minerals.\n";

cout << "The City of Bacoor's ZIP code is 4102.\n";

cout << "According to the 2020 census, its total population is 664,625.\n";

cout << "Here are all the barangays in Bacoor: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BacoorBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(CaviteCityBrgys)/sizeof(CaviteCityBrgys[0]);

cout << "You have chosen the city of Cavite.\n";

cout << "Mayor: Denver Christopher R. Chua\n";

cout << "The City of Cavite is a 2nd class component city and it abounds with great objects, and subjects of culture and history. It is the birthplace of a good number of Filipino heroes and it has an interesting range of sites associated with the Philippine Revolution of 1896.\n";

cout << "The City of Cavite's ZIP code is 4100, 4101, 4125.\n";

cout << "According to the 2020 census, its total population is 100,674.\n";

cout << "Here are all the barangays in : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CaviteCityBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(DasmaBrgys)/sizeof(DasmaBrgys[0]);

cout << "You have chosen the city of Dasmarinas.\n";

cout << "Mayor: Jennifer A. Barzaga\n";

cout << "The City of Dasmarinas is a 1st class component city and it is known as the Industrial Giant of CALABARZON. It is one of Cavite's most rapidly growing local government units. The city has a wide variety of commercial establishments, including retail malls, fast food chains, groceries, convenience stores, restaurants, etc.\n";

cout << "The City of Dasmarinas' ZIP code is 4114, 4115, 4126.\n";

cout << "According to the 2020 census, its total population is 703,141.\n";

cout << "Here are all the barangays in : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << DasmaBrgys[i] << "\n";

}

break;

}

case 4:{

int barangayCount = sizeof(GenTriasBrgys)/sizeof(GenTriasBrgys[0]);

cout << "You have chosen the city of General Trias.\n";

cout << "Mayor: Luis Ferrer IV\n";

cout << "The City of General Trias, formerly known as San Francisco de Malabon, is a 1st class component city and is famous for its heroic past and contributions to the Philippine revolution, making it a place where history meets contemporary growth. Carabao Milk is a typical souvenir in General Trias.\n";

cout << "The City of General Trias' ZIP code is 4107.\n";

cout << "According to the 2020 census, its total population is 450,583.\n";

cout << "Here are all the barangays in : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << GenTriasBrgys[i] << "\n";

}

break;

}

case 5:{

int barangayCount = sizeof(ImusBrgys)/sizeof(ImusBrgys[0]);

cout << "You have chosen the city of Imus.\n";

cout << "Mayor: Alex L. Advincula\n";

cout << "The City of Imus is a 1st class component city and the capital of Cavite Province. It is also known as the Flag Capital of the Philippines because the first Philippine Flag was flown here on May 28, 1898 in the Battle of Alapan.\n";

cout << "The City of Imus' ZIP code is 4103.\n";

cout << "According to the 2020 census, its total population is 496,794.\n";

cout << "Here are all the barangays in : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << ImusBrgys[i] << "\n";

}

break;

}

case 6:{

int barangayCount = sizeof(TagaytayBrgys)/sizeof(TagaytayBrgys[0]);

cout << "You have chosen the city of Tagaytay.\n";

cout << "Mayor: Abraham 'Bambol' Tolentino\n";

cout << "The City of Tagaytay is a 2nd class city and It is one of the most frequented places in the south because of its outstanding scenery like the Taal Lake and Taal Volcano and a cold climate. It is also home to the Sky Ranch which is a famous amusement park.\n";

cout << "The City of Tagaytay's ZIP code is 4120.\n";

cout << "According to the 2020 census, its total population is 85,330.\n";

cout << "Here are all the barangays in : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TagaytayBrgys[i] << "\n";

}

break;

}

case 7:{

int barangayCount = sizeof(TreceMartBrgys)/sizeof(TreceMartBrgys[0]);

cout << "You have chosen the city of Trece Martires.\n";

cout << "Mayor: Gemma B. Lubigan\n";

cout << "The City of Trece Martires is a 1st class component city and de facto capital of Cavite. It is named for the 13 Filipino patriots martyred by the Spanish in 1896 at Cavite. Trece Martires is a trading centre; rice, fruits, coffee, sugarcane, and bananas are grown in the region.\n";

cout << "The City of Trece Martires' ZIP code is 4109.\n";

cout << "According to the 2020 census, its total population is 210,503.\n";

cout << "Here are all the barangays in : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TreceMartBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Cavite: " << endl;

cout << "1. Alfonso\n";

cout << "2. Amadeo\n";

cout << "3. Carmona\n";

cout << "4. General Emilio Aguinaldo\n";

cout << "5. General Mariano Alvarez\n";

cout << "6. Indang\n";

cout << "7. Kawit\n";

cout << "8. Magallanes\n";

cout << "9. Maragondon\n";

cout << "10. Mendez\n";

cout << "11. Naic\n";

cout << "12. Noveleta\n";

cout << "13. Rosario\n";

cout << "14. Silang\n";

cout << "15. Tanza\n";

cout << "16. Ternate\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Alfonso.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Amadeo.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Carmona.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of General Emilio Aguinaldo.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of General Mariano Alvarez.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Indang.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Kawit.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Magallanes.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Maragondon.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Mendez.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Naic.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Noveleta.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Rosario.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Silang.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Tanza.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Ternate.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (calabarzon == 3){

cout << "You have chosen Laguna. " << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Laguna: " << endl;

cout << "1. Binan\n";

cout << "2. Cabuyao\n";

cout << "3. Calamba - Regional Center of CALABARZON\n";

cout << "4. San Pablo\n";

cout << "5. San Pedro\n";

cout << "6. Santa Rosa\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(BinanCityBrgys)/sizeof(BinanCityBrgys[0]);

cout << "You have chosen the city of Binan.\n";

cout << "Mayor: Walfredo R. Dimaguila\n";

cout << "The City of Binan is a 1st class component city and is mostly recognized as a major economic center of Laguna for its industrial parks, as well as a suburb of Metro Manila. The city is also known for a type of pancake made from rice flour, topped with cheese or butter (Puto Binan).\n";

cout << "The City of Binan's ZIP code is 4024, 4034 in Laguna Technopark.\n";

cout << "According to the 2020 census, its total population is 407,437.\n";

cout << "Here are all the barangays in Binan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BinanCityBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(CabuyaoBrgys)/sizeof(CabuyaoBrgys[0]);

cout << "You have chosen the city of Cabuyao.\n";

cout << "Mayor: Dennis C. Hain\n";

cout << "The City of Cabuyao is a 1st class component city and is also known as The City of Modern Factories. The city hosts Nestlé, Asian Brewery, and San Miguel Brewery's factories, and two major industrial parks, the Light Industry and Science Park I (LISP I) and Silangan Industrial Park.\n";

cout << "The City of Cabuyao's ZIP code is 4025.\n";

cout << "According to the 2020 census, its total population is 355,330.\n";

cout << "Here are all the barangays in Cabuyao: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CabuyaoBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(CalambaBrgys)/sizeof(CalambaBrgys[0]);

cout << "You have chosen the city of Calamba.\n";

cout << "Mayor: Roseller H. Rizal\n";

cout << "The City of Calamba is a 1st class component city and is the Regional Center of CALABARZON. It is the birthplace of National Hero of the Philippines, Jose Riza. Calamba is also known as the Spring Resort Capital of the Philippines because of its many hot springs resorts.\n";

cout << "The City of Calamba's ZIP code is 4027, 4028, 4029.\n";

cout << "According to the 2020 census, its total population is 539,671.\n";

cout << "Here are all the barangays in : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CalambaBrgys[i] << "\n";

}

break;

}

case 4:{

int barangayCount = sizeof(SanPabLagunaBrgys)/sizeof(SanPabLagunaBrgys[0]);

cout << "You have chosen the city of San Pablo.\n";

cout << "Mayor: Vicente B. Amante\n";

cout << "The City of San Pablo is a 1st class component city and is one of the Philippines' oldest cities. This city is otherwise known as the 'City of Seven Lakes' because it has seven lakes Sampaloc, Palakpakin, Yambo, Bunot, Pandin, Mohikap, and Calibato.\n";

cout << "The City of San Pablo's ZIP code is 4000.\n";

cout << "According to the 2020 census, its total population is 285,348.\n";

cout << "Here are all the barangays in San Pablo: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SanPabLagunaBrgys[i] << "\n";

}

break;

}

case 5:{

int barangayCount = sizeof(SanPedLagunaBrgys)/sizeof(SanPedLagunaBrgys[0]);

cout << "You have chosen the city of San Pedro.\n";

cout << "Mayor: Art Joseph Francis Mercado\n";

cout << "The City of San Pedro is a 3rd class component city and it is named after the patron saint, Saint Peter. It is also home to the Laguna Lake which is the largest lake in the Philippines.\n";

cout << "The City of San Pedro's ZIP code is 4023.\n";

cout << "According to the 2020 census, its total population is 326,001.\n";

cout << "Here are all the barangays in San Pedro: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SanPedLagunaBrgys[i] << "\n";

}

break;

}

case 6:{

int barangayCount = sizeof(SantaRosaLagunaBrgys)/sizeof(SantaRosaLagunaBrgys[0]);

cout << "You have chosen the city of Santa Rosa.\n";

cout << "Mayor: Arlene B. Arcillas\n";

cout << "The City of Santa Rosa is a 1st class component city and is known for its industrial development. It is home to the Coca-Cola, RC Cola, and Toyota manufacturing plants.\n";

cout << "The City of Santa Rosa's ZIP code is 4026.\n";

cout << "According to the 2020 census, its total population is 418,812.\n";

cout << "Here are all the barangays in : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SantaRosaLagunaBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(LagunaMuni)/sizeof(LagunaMuni[0]);

char municipal;

cout << "Here are all the municipalities in Laguna: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << LagunaMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Alaminos.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Bay.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Calauan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Cavinti.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Famy.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Kalayaan.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Liliw.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Los Banos.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Luisiana.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Lumban.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Mabitac.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Magdalena.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Majayjay.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Nagcarlan.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Paete.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Pagsanjan.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Pakil.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Pangil.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Pila.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of Rizal.\n";

break;

}

case 21:{

cout << "You have chosen the municipality of Santa Cruz.\n";

break;

}

case 22:{

cout << "You have chosen the municipality of Santa Maria.\n";

break;

}

case 23:{

cout << "You have chosen the municipality of Siniloan.\n";

break;

}

case 24:{

cout << "You have chosen the municipality of Victoria.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (calabarzon == 4){

cout << "You have chosen Quezon. " << endl;

cout << "Would you like to find out about the cities, municipalities, or the barangays? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Quezon: " << endl;

cout << "1. Lucena City - Highly Urbanized City\n";

cout << "2. Tayabas\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(LucenaCityBrgys)/sizeof(LucenaCityBrgys[0]);

cout << "You have chosen the city of Lucena.\n";

cout << "Mayor: Mark Don Victor B. Alcala\n";

cout << "The City of Lucena is a 1st class highly urbanized city situated in Quezon but is politically independent. It is a major fishing port and a regional wholesale distributing point and has food-processing plants (particularly for coconut). Lucena is served by major road and rail facilities. Banahaw and San Cristobal Mountains National Park is located here.\n";

cout << "The City of Lucena's ZIP code is 4300, 4301.\n";

cout << "According to the 2020 census, its total population is 278,924.\n";

cout << "Here are all the barangays in Lucena: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BinanCityBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(TayabasBrgys)/sizeof(TayabasBrgys[0]);

cout << "You have chosen the city of Tayabas.\n";

cout << "Mayor: Maria Lourdes R. Pontioso\n";

cout << "The City of Tayabas is a 6th class component city and is home to the Minor Basilica of St. Michael The Archangel, 20 Spanish stone bridges, a number of heritage houses and other historical landmarks, Tayabas acts as an undisturbed time capsule of its noble past.\n";

cout << "The City of Tayabas' ZIP code is 4327.\n";

cout << "According to the 2020 census, its total population is 112,658\n";

cout << "Information about city\n";

cout << "Here are all the barangays in Tayabas: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TayabasBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(QuezonProvMuni)/sizeof(QuezonProvMuni[0]);

char municipal;

cout << "Here are all the municipalities in Quezon: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << QuezonProvMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Agdangan.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Alabat.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Atimonan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Buenavista.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Burdeos.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Candelaria.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Catanauan.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Dolores.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of General Luna.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of General Nakar.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Gumaca.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Infanta.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Jomalig.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Lopez.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Lucban.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Macalelon.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Mauban.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Mulanay.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Padre Burgos.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of Pagbilao.\n";

break;

}

case 21:{

cout << "You have chosen the municipality of Panukulan.\n";

break;

}

case 22:{

cout << "You have chosen the municipality of Patnanungan.\n";

break;

}

case 23:{

cout << "You have chosen the municipality of Perez.\n";

break;

}

case 24:{

cout << "You have chosen the municipality of Pitogo.\n";

break;

}

case 25:{

cout << "You have chosen the municipality of Plaridel.\n";

break;

}

case 26:{

cout << "You have chosen the municipality of Polillo.\n";

break;

}

case 27:{

cout << "You have chosen the municipality of Quezon.\n";

break;

}

case 28:{

cout << "You have chosen the municipality of Real.\n";

break;

}

case 29:{

cout << "You have chosen the municipality of Sampaloc.\n";

break;

}

case 30:{

cout << "You have chosen the municipality of San Andres.\n";

break;

}

case 31:{

cout << "You have chosen the municipality of San Antonio.\n";

break;

}

case 32:{

cout << "You have chosen the municipality of San Francisco.\n";

break;

}

case 33:{

cout << "You have chosen the municipality of San Narciso.\n";

break;

}

case 34:{

cout << "You have chosen the municipality of Sariaya.\n";

break;

}

case 35:{

cout << "You have chosen the municipality of Tagkawayan.\n";

break;

}

case 36:{

cout << "You have chosen the municipality of Tiaong.\n";

break;

}

case 37:{

cout << "You have chosen the municipality of Unisan.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (calabarzon == 5){

cout << "You have chosen Rizal. " << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Rizal: " << endl;

cout << "Antipolo - Capital of Rizal\n";

cout << "Would you like to find out more about Antipolo and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(AntipoloRizalBrgys)/sizeof(AntipoloRizalBrgys[0]);

cout << "Mayor: Casimiro Ynares III\n";

cout << "The City of Antipolo is a 1st class component city and the capital of Rizal province. It is known as the Pilgrimage Capital of the Philippines as it is home to many religious landmarks like the National Shrine of Our Lady of Peace and Good Voyage, also known as the Antipolo Cathedral. The Marian image of the Virgin of Antipolo, Boso-Boso Church, St. Therese Shrine. It also houses the Pinto Art Museum which features Filipino art, gardens, architecture.\n";

cout << "The City of Antipolo's ZIP code is 1870, 1871(Mayamot), 1872(Bagong Nayon/Cogeo), 1873(Cupang), 1874(Langhaya),1875(Mambagat)\n";

cout << "According to the 2020 census, its total population is 887,399.\n";

cout << "Here are all the barangays in :\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << AntipoloRizalBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Rizal: " << endl;

cout << "1. Angono\n";

cout << "2. Baras\n";

cout << "3. Binangonan\n";

cout << "4. Cainta\n";

cout << "5. Cardona\n";

cout << "6. Jalajala\n";

cout << "7. Morong\n";

cout << "8. Pililla\n";

cout << "9. Rodriguez\n";

cout << "10. San Mateo\n";

cout << "11. Tanay\n";

cout << "12. Taytay\n";

cout << "13. Teresa\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Angono.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Baras.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Binangonan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Cainta.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Cardona.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Jalajala.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Morong.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Pililla.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Rodriguez.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of San Mateo.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Tanay.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Taytay.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Teresa.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

case 5: {

char prov;

char cmb;

cout << "REGION IV-B MIMAROPA REGION" << endl;

cout << "MIMAROPA is an acronym of Mindoro, Marinduque, Romblon, and Palawan. It is known as the Treasure Trove of Southern Luzon for their marble products, handicrafts, and fruits. It is also one of the busiest regions in terms of tourism." << endl;

cout << "It has a total of 3,228,558 people as of 2020." << endl;

cout << "It has 5 provinces, 2 cities, 71 municipalities, and 1,460 barangays." << endl;

cout << "Would you like to find out about the different provinces in MIMAROPA? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int mimaropa;

cout << "Here are all the provinces in Mimaropa: " << endl;

cout << "1. Marinduque\n";

cout << "2. Occidental Mindoro\n";

cout << "3. Oriental Mindoro\n";

cout << "4. Palawan\n";

cout << "5. Romblon\n";

cout << "Choose from 1-5 to find out to choose if you want to find out more about the different provinces: ";

cin >> mimaropa;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (mimaropa == 1){

cout << "You have chosen Marinduque. \n";

cout << "Marinduque has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Marinduque:" << endl;

cout << "1. Boac - Capital of Marinduque\n";

cout << "2. Buenavista\n";

cout << "3. Gasan\n";

cout << "4. Mogpog\n";

cout << "5. Santa Cruz\n";

cout << "6. Torrijos\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Boac.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Buenavista.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Gasan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Mogpog.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Santa Cruz.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Torrijos.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (mimaropa == 2){

cout << "You have chosen Occidental Mindoro\n";

cout << "Occidental Mindoro has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Occidental Mindoro:" << endl;

cout << "1. Abra de Ilog\n";

cout << "2. Calintaan\n";

cout << "3. Looc\n";

cout << "4. Lubang\n";

cout << "5. Magsaysay\n";

cout << "6. Mamburao - Capital of Occidental Mindoro\n";

cout << "7. Paluan\n";

cout << "8. Rizal\n";

cout << "9. Sablayan\n";

cout << "10. San Jose\n";

cout << "11. Santa Cruz\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Abra de Ilog.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Calintaan.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Looc.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Lubang.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Magsaysay.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Mamburao.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Paluan.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Rizal.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Sablayan.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of San Jose.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Santa Cruz.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (mimaropa == 3){

cout << "You have chosen Oriental Mindoro\n";

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Oriental Mindoro:" << endl;

cout << "Calapan - Capital of Oriental Mindoro and Regional Center of MIMAROPA\n";

cout << "Would you like to find out more about Calapan and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

cout << "Mayor: Marilou F. Morillo\n";

cout << "The City of Calapan is a 3rd class component city and the capital of Oriental Mindoro and the Regional Center of MIMAROPA. It is also known as the City of Golden Grains and The Acropolis of the South. It combines the convenience of an urbanized landscape and the attraction of its ecotourism sites and natural sanctuaries.\n";

cout << "The City of Calapan's ZIP code is 5200.\n";

cout << "According to the 2020 census, its total population is 145,786.\n";

cout << "Here are all the barangays in :\n";

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Oriental Mindoro:" << endl;

cout << "1. Baco\n";

cout << "2. Bansud\n";

cout << "3. Bongabong\n";

cout << "4. Bulalacao\n";

cout << "5. Gloria\n";

cout << "6. Mansalay\n";

cout << "7. Naujan\n";

cout << "8. Pinamalayan\n";

cout << "9. Pola\n";

cout << "10. Puerto Galera\n";

cout << "11. Roxas\n";

cout << "12. San Teodoro\n";

cout << "13. Soccoro\n";

cout << "14. Victoria\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Baco.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Bansud.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Bongabong.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Bulalacao.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Gloria.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Mansalay.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Naujan.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Pinamalayan.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Pola.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Puerto Galera.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Roxas.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of San Teodoro.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Soccoro.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Victoria.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (mimaropa == 4){

cout << "You have chosen Palawan\n";

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Palawan:" << endl;

cout << "Puerto Princesa - Highly Urbanized City and the Capital of Palawan\n";

cout << "Would you like to find out more about Puerto Princesa and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(PuertoPrincesaBrgys)/sizeof(PuertoPrincesaBrgys[0]);

cout << "Mayor: Lucilo R. Bayron\n";

cout << "The City of Puerto Princesa is a 1st class highly urbanized city stationalized and is also the capital of Palawan. Puerto-Princesa Subterranean River National Park encompasses one of the world's most impressive cave systems, featuring spectacular limestone karst landscapes, pristine natural beauty, and intact old-growth forests and distinctive wildlife.\n";

cout << "The City of Puerto Princesa's ZIP code is 5300, 5301(Iwahig Penal Colony)\n";

cout << "According to the 2020 census, its total population is 307,079.\n";

cout << "Here are all the barangays in Puerto Princesa:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << PuertoPrincesaBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(PalawanMuni)/sizeof(PalawanMuni[0]);

char municipal;

cout << "Here are all the municipalities in Palawan:" << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << PalawanMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Aborlan.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Agutaya.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Araceli.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Balabac.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Bataraza.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Brooke's Point.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Basuanga.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Cagayancillo.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Coron.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Culion.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Cuyo.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Dumaran.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of El Nido.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Kalayaan.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Linapacan.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Magsaysay.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Narra.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Quezon.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Rizal.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of Roxas.\n";

break;

}

case 21:{

cout << "You have chosen the municipality of San Vicente.\n";

break;

}

case 22:{

cout << "You have chosen the municipality of Sofronio Espanola.\n";

break;

}

case 23:{

cout << "You have chosen the municipality of Taytay.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (mimaropa == 5){

cout << "You have chosen Romblon\n";

cout << "Romblon has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

int muniCount = sizeof(RomblonProvMuni)/sizeof(RomblonProvMuni[0]);

char municipal;

cout << "Here are all the municipalities in Romblon:" << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << RomblonProvMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Alcantara.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Banton.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Cajidiocan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Calatrava.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Concepcion.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Corcuera.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Ferrol.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Looc.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Magdiwang.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Odiongan.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Romblon.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of San Agustin.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of San Andres.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of San Fernando.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of San Jose.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Santa Fe.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Santa Maria.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

case 6: {

char prov;

char cmb;

cout << "REGION V - Bicol Region" << endl;

cout << "Bicol Region is known for their volcanoes, beaches, caverns, coves, and other natural attractions. Bicol also houses the Mayon Volcano, to which tourists are in awe." << endl;

cout << "It has a total of 6,082,165 people as of 2020." << endl;

cout << "It has 6 provinces, 7 cities, 107 municipalities, and 3,471 barangays." << endl;

cout << "Would you like to find out about the different provinces in the Bicol Region? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int bicol;

cout << "Here are all the provinces in the Bicol Region: " << endl;

cout << "1. Albay\n";

cout << "2. Camarines Norte\n";

cout << "3. Camarines Sur\n";

cout << "4. Catanduanes\n";

cout << "5. Masbate\n";

cout << "6. Sorsogon\n";

cout << "Choose from 1-6 to find out more about the different provinces: ";

cin >> bicol;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (bicol == 1){

cout << "You have chosen Albay." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'C'){

char citybarangays;

cout << "Here are all the cities in Albay: " << endl;

cout << "1. Legazpi - Capital of Albay and Regional Center of the Bicol Region.\n";

cout << "2. Ligao\n";

cout << "3. Tabaco\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1:{

int barangayCount = sizeof(LegazpiBrgys)/sizeof(LegazpiBrgys[0]);

cout << "You have chosen the city of Legazpi.\n";

cout << "Mayor: Hon. Atty. Alfredo A. Garbin Jr.\n";

cout << "The City of Legazpi is a 1st class component city and the capital of Albay and the Regional Center of Bicol Region. It houses the Mayon Volcano, which is referred to as one of the most perfectly shaped volcanoes in the world. It also houses the Cagsawa Ruins Park which is the remnants of the Cagsawa Church after it was destroyed by Mayon Volcano.\n";

cout << "The City of Legazpi's ZIP code is 4500.\n";

cout << "According to the 2020 census, its total population is 209,533.\n";

cout << "Here are all the barangays in Legazpi:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << LegazpiBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(LigaoBrgys)/sizeof(LigaoBrgys[0]);

cout << "You have chosen the city of Ligao.\n";

cout << "Mayor: Fernando Vallejo Gonzalez\n";

cout << "The City of Ligao is a 4th class component city and its economy mainly comes from their agriculture sector. According to the Government of Ligao, the place was famous for its beautiful maidens, prompting eligible young men near and far to come courting. One such group of men crossed paths with Spaniards soldiers who asked what the place was called. The young men thought the foreigners were asking what they are about and answered 'Manliligaw'.\n";

cout << "The City of Ligao's ZIP code is 4504.\n";

cout << "According to the 2020 census, its total population is 118,096.\n";

cout << "Here are all the barangays in Ligao:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << LigaoBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(TabacoBrgys)/sizeof(TabacoBrgys[0]);

cout << "You have chosen the city of Tabaco.\n";

cout << "Mayor: Cielo Krisel Lagman-Luistro\n";

cout << "The City of Tabaco is a 4th class component city. It houses the Tabaco International Port which is one of the first international ports of entry in the Philippines. It is also famous for its Mt. Mayon Skyline Adventure that allows people to enjoy the beauty of Mayon Volcano. \n";

cout << "The City of Tabaco's ZIP code is 4511.\n";

cout << "According to the 2020 census, its total population is 140,961.\n";

cout << "Here are all the barangays in Tabaco.\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TabacoBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Albay: " << endl;

cout << "1. Bacacay\n";

cout << "2. Camalig\n";

cout << "3. Daraga\n";

cout << "4. Guinobatan\n";

cout << "5. Jovellar\n";

cout << "6. Libon\n";

cout << "7. Malilipot\n";

cout << "8. Malinao\n";

cout << "9. Manito\n";

cout << "10. Oas\n";

cout << "11. Pio Duran\n";

cout << "12. Polangui\n";

cout << "13. Rapu-Rapu\n";

cout << "14. Santo Domingo\n";

cout << "15. Tiwi\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Bacacay.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Camalig.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Daraga.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Guinobatan.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Jovellar.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Libon.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Malilipot.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Malinao.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Manito.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Oas.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Pio Duran.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Polangui.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Rapu-Rapu.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Santo Domingo.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Tiwi.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (bicol == 2){

cout << "You have chosen Camarines Norte" << endl;

cout << "Camarines Norte has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Camarines Norte: " << endl;

cout << "1. Basud\n";

cout << "2. Capalonga\n";

cout << "3. Daet - Capital of Camarines Norte\n";

cout << "4. Jose Panganiban\n";

cout << "5. Labo\n";

cout << "6. Mercedes\n";

cout << "7. Paracale\n";

cout << "8. San Lorenzo Ruiz\n";

cout << "9. San Vicente\n";

cout << "10. Santa Elena\n";

cout << "11. Talisay\n";

cout << "12. Vinzons\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Basud.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Capalonga.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Daet.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Jose Panganiban.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Labo.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Mercedes.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Paracale.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of San Lorenzo Ruiz.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of San Vicente.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Santa Elena.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Talisay.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Vinzons.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (bicol == 3){

cout << "You have chosen Camarines Sur" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the Cities in Camarines Sur: " << endl;

cout << "1. Iriga\n";

cout << "2. Naga\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(IrigaBrgys)/sizeof(IrigaBrgys[0]);

cout << "You have chosen the city of Iriga.\n";

cout << "Mayor: Wilfredo Rex C. Oliva\n";

cout << "The City of Iriga is a 4th class component city. It is known as the City of Crystal-clear Springs and has well over 30 natural springs. It also houses the Mount Iriga or Mount Asog that is a centerpiece for Iriga's beauty. \n";

cout << "The City of Iriga's ZIP code is 4431.\n";

cout << "According to the 2020 census, its total population is 114,457.\n";

cout << "Here are all the barangays in Iriga: ";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << IrigaBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(NagaBrgys)/sizeof(NagaBrgys[0]);

cout << "You have chosen the city of Naga.\n";

cout << "Mayor: Nelson S. Legacion\n";

cout << "The Pilgrim City of Naga is a 1st class independent component city. It is also known as the Queen City of Bicol because of it was the site that established the Filipino revolutionary government in 1898. It's a Pilgrim City because it's home to one of the largest Marian pilgrimages in Asia.\n";

cout << "The City of Naga's ZIP code is 4400.\n";

cout << "According to the 2020 census, its total population is 209,170.\n";

cout << "Here are all the barangays in : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << NagaBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(CamarinesSurMuni)/sizeof(CamarinesSurMuni[0]);

char municipal;

cout << "Here are all the municipalities in Camarines Sur: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << CamarinesSurMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Baao.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Balatan.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Bato.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Bombon.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Buhi.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Bula.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Cabusao.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Calabanga.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Camaligan.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Canaman.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Caramoan.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Del Gallego.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Gainza.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Garchitorena.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Goa.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Lagonoy.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Libmanan.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Lupi.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Magarao.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of Milaor.\n";

break;

}

case 21:{

cout << "You have chosen the municipality of Minalabac.\n";

break;

}

case 22:{

cout << "You have chosen the municipality of Nabua.\n";

break;

}

case 23:{

cout << "You have chosen the municipality of Ocampo.\n";

break;

}

case 24:{

cout << "You have chosen the municipality of Pamplona.\n";

break;

}

case 25:{

cout << "You have chosen the municipality of Pasacao.\n";

break;

}

case 26:{

cout << "You have chosen the municipality of Pili.\n";

break;

}

case 27:{

cout << "You have chosen the municipality of Presentacion.\n";

break;

}

case 28:{

cout << "You have chosen the municipality of Ragay.\n";

break;

}

case 29:{

cout << "You have chosen the municipality of Sagnay.\n";

break;

}

case 30:{

cout << "You have chosen the municipality of San Fernando.\n";

break;

}

case 31:{

cout << "You have chosen the municipality of San Jose.\n";

break;

}

case 32:{

cout << "You have chosen the municipality of Sipocot.\n";

break;

}

case 33:{

cout << "You have chosen the municipality of Siruma.\n";

break;

}

case 34:{

cout << "You have chosen the municipality of Tigaon.\n";

break;

}

case 35:{

cout << "You have chosen the municipality of Tinambac.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (bicol == 4){

cout << "You have chosen Catanduanes" << endl;

cout << "Catanduanes has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Catanduanes: " << endl;

cout << "1. Bagamanoc\n";

cout << "2. Baras\n";

cout << "3. Bato\n";

cout << "4. Caramoran\n";

cout << "5. Gigmoto\n";

cout << "6. Pandan\n";

cout << "7. Panganiban\n";

cout << "8. San Andres\n";

cout << "9. San Miguel\n";

cout << "10. Viga\n";

cout << "11. Virac - Capital of Catanduanes\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Bagamonoc.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Baras.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Bato.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Caramoran.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Gigmoto.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Pandan.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Panganiban.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of San Andres.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of San Miguel.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Viga.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Virac.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (bicol == 5){

cout << "You have chosen Masbate." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Masbate\n";

cout << "Masbate City - Capital of Masbate.\n";

cout << "Would you like to find out more about Masbate City and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(MasbateCityBrgys)/sizeof(MasbateCityBrgys[0]);

cout << "Mayor: Socrates M. Tuason\n";

cout << "The City of Masbate is a 3rd class component city and the capital of Masbate Province. It serves as the main commercial center and chief seaport of the province. Its known for its natural beauty including beaches, lighthouses, and a mangrove park.\n";

cout << "The City of Masbate's ZIP code is 5400.\n";

cout << "According to the 2020 census, its total population is 104,522.\n";

cout << "Here are all the barangays in :\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << MasbateCityBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(MasbateProvMuni)/sizeof(MasbateProvMuni[0]);

char municipal;

cout << "Here are all the municipalities in Masbate Province.\n";

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << MasbateProvMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Aroroy.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Baleno.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Balud.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Batuan.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Cataingan.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Cawayan.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Claveria.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Dimasalang.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Esperanza.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Mandaon.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Milagros.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Mobo.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Monreal.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Palanas.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Pio V. Corpuz.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Placer.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of San Fernando.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of San Jacinto.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of San Pascual.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of Uson.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (bicol == 6){

cout << "You have chosen Sorsogon." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Sorsogon: " << endl;

cout << "Sorsogon City - Capital of Sorsogon\n";

cout << "Would you like to find out more about Sorsogon City and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(SorsogonCityBrgys)/sizeof(SorsogonCityBrgys[0]);

cout << "Mayor: Maria Ester E. Hamor\n";

cout << "The City of Sorsogon is a 2nd class component city and the capital of Sorsogon Province. It is known as the Whale Shark Capital of the Philippines. It is considered as one of the leading cities in urbanization.\n";

cout << "The City of Sorsogon's ZIP code is 4700(East&West districts), 4701(Bacon district)\n";

cout << "According to the 2020 census, its total population is 182,237.\n";

cout << "Here are all the barangays in :\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SorsogonCityBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Sorsogon: " << endl;

cout << "1. Barcelona\n";

cout << "2. Bulan\n";

cout << "3. Bulusan\n";

cout << "4. Casiguran\n";

cout << "5. Castilla\n";

cout << "6. Donsol\n";

cout << "7. Gubat\n";

cout << "8. Irosin\n";

cout << "9. Juban\n";

cout << "10. Magallanes\n";

cout << "11. Matnog\n";

cout << "12. Pilar\n";

cout << "13. Prieto Diaz\n";

cout << "14. Santa Magdalena\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Barcelona.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Bulan.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Bulusan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Casiguran.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Castilla.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Donsol.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Gubat.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Irosin.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Juban.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Magallanes.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Matnog.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Pilar.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Prieto Diaz.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Santa Magdalena.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

break;

}

}

case 7: {

char prov;

char cmb;

cout << "REGION VI - Western Visayas" << endl;

cout << "Western Visayas is known for its cultural heritage, tourist spots, and natural attractions; like the Island of Boracay for its pristine white sand. " << endl;

cout << "It has a total of 7,954,723 people as of 2020." << endl;

cout << "It has 6 provinces, 16 cities, 117 municipalities, and 4,051 barangays." << endl;

cout << "Would you like to find out about the different provinces in Western Visayas? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int westernvis;

cout << "Here are all the provinces in Western Visayas:" << endl;

cout << "1. Aklan\n";

cout << "2. Antique\n";

cout << "3. Capiz\n";

cout << "4. Guimaras\n";

cout << "5. Iloilo\n";

cout << "6. Negros Occidental\n";

cout << "Choose from 1-6 to find out more about the different provinces: ";

cin >> westernvis;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (westernvis == 1){

cout << "You have chosen Aklan. " << endl;

cout << "Aklan has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Aklan: \n";

cout << "1. Atlavas\n";

cout << "2. Balete\n";

cout << "3. Banga\n";

cout << "4. Batan\n";

cout << "5. Buruanga\n";

cout << "6. Ibajay\n";

cout << "7. Kalibo - Capital of Aklan\n";

cout << "8. Lezo\n";

cout << "9. Libacao\n";

cout << "10. Madalag\n";

cout << "11. Malay\n";

cout << "12. Malinao\n";

cout << "13. Nabas\n";

cout << "14. New Washington\n";

cout << "15. Numancia\n";

cout << "16. Tangalan\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Atlavas.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Balete.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Banga.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Batan.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Buruanga.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Ibajay.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Kalibo.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Lezo.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Libacao.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Madalag.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Malay.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Malinao.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Nabas.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of New Washington.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Numancia.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Tangalan.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (westernvis == 2){

cout << "You have chosen Antique";

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Antique: " << endl;

cout << "Bacolod - Highly Urbanized City\n";

cout << "Would you like to find out more about Bacolod and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(BacolodBrgys)/sizeof(BacolodBrgys[0]);

cout << "Mayor: Alfredo B. Benitez\n";

cout << "The City of Bacolod is a 1st class highly urbanized city situated in the Antique province. It is known as the City of Smiles because of the Maskara Festival. Other title of it is the Land of Sweet People because of their inasal chicken and sweet dessert treats.\n";

cout << "The City of Bacolod's ZIP code is 6100.\n";

cout << "According to the 2020 census, its total population is 600,683.\n";

cout << "Here are all the barangays in :\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BacolodBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Antique: " << endl;

cout << "1. Anini-y\n";

cout << "2. Barbaza\n";

cout << "3. Belison\n";

cout << "4. Bugasong\n";

cout << "5. Caluya\n";

cout << "6. Culasi\n";

cout << "7. Hamtic\n";

cout << "8. Laua-an\n";

cout << "9. Libertad\n";

cout << "10. Pandan\n";

cout << "11. Patnongon\n";

cout << "12. San Jose de Buenavista - Capital of Antique\n";

cout << "13. San Remigio\n";

cout << "14. Sebaste\n";

cout << "15. Sibalom\n";

cout << "16. Tibiao\n";

cout << "17. Tobias Fornier\n";

cout << "18. Valderrama\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Anini-y.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Barbaza.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Belison.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Bugasong.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Caluya.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Culasi.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Hamtic.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Laua-an.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Libertad.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Pandan.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Patnongon.\n";

}

case 12:{

cout << "You have chosen the municipality of San Jose de Buenavista.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of San Remigio.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Sebaste.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Sibalom.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Tibiao.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Tobias Fornier.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Valderrama.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (westernvis == 3){

cout << "You have chosen Capiz" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Capiz: " << endl;

cout << "Roxas - Capital of Capiz\n";

cout << "Would you like to find out more about Roxas and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(RoxasCityBrgys)/sizeof(RoxasCityBrgys[0]);

cout << "Mayor: Ronnie T. Dadivas\n";

cout << "The City of Roxas is a 3rd class component city and the capital of the Capiz Province. Due to the abundancy of seafood, it is known as the Seafood Capital of the Philippines. \n";

cout << "The City of Roxas' ZIP code is 5800.\n";

cout << "According to the 2020 census, its population is 179,292.\n";

cout << "Here are all the barangays in Roxas:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << RoxasCityBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Capiz: " << endl;

cout << "1. Cuartero\n";

cout << "2. Dao\n";

cout << "3. Dumalag\n";

cout << "4. Dumarao\n";

cout << "5. Ivisan\n";

cout << "6. Jamindan\n";

cout << "7. Maayon\n";

cout << "8. Mambusao\n";

cout << "9. Panay\n";

cout << "10. Panitan\n";

cout << "11. Pilar\n";

cout << "12. Pontevedra\n";

cout << "13. President Roxas\n";

cout << "14. Sapian\n";

cout << "15. Sigma\n";

cout << "16. Tapaz\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Cuartero.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Dao.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Dumalag.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Dumarao.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Ivisan.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Jamindan.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Maayon.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Mambusao.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Panay.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Panitan.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Pilar.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Pontevedra.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of President Roxas.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Sapian.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Sigma.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Tapaz.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (westernvis == 4){

cout << "You have chosen Guimaras." << endl;

cout << "Guimaras has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Guimaras: " << endl;

cout << "1. Buenavista\n";

cout << "2. Jordan - Capital of Guimaras\n";

cout << "3. Nueva Valencia\n";

cout << "4. San Lorenzo\n";

cout << "5. Sibunag\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Buenavista.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Jordan.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Nueva Valencia.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of San Lorenzo.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Sibunag.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (westernvis == 5){

cout << "You have chosen Iloilo\n";

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Iloilo: " << endl;

cout << "1. Passi\n";

cout << "2. Iloilo City - Highly Urbanized City and the Capital of Iloilo and the Regional Center of Western Visayas.\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(PassiBrgys)/sizeof(PassiBrgys[0]);

cout << "You have chosen the city of Passi\n";

cout << "Mayor: Stephen A. Palmares\n";

cout << "The City of Passi is a 4th class component city and is known as the Sweet City in the Heart of Panay due to its large pineapple plantations and fruit production. \n";

cout << "The City of Passi's ZIP code is 5037.\n";

cout << "According to the 2020 census, its total population is 88,873.\n";

cout << "Here are all the barangays in Passi: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << PassiBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(IloiloCityBrgys)/sizeof(IloiloCityBrgys[0]);

cout << "You have chosen the city of Iloilo\n";

cout << "Mayor: Jerry Trenas\n";

cout << "The City of Iloilo is a 1st class highly urbanized city and the capital of Iloilo. It is also the regional center of Western Visayas. It is well known for well-preserved historic sites and old churches like the Jaro Cathedral, Camina Balay nga Bato, and the Dinagyang Festival. Iloilo is also considered as the Philippine's City of love.\n";

cout << "The City of Iloilo's ZIP code is 5000.\n";

cout << "According to the 2020 census, its total population is 457,626.\n";

cout << "Here are all the barangays in Iloilo: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << IloiloCityBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(IloiloProvMuni)/sizeof(IloiloProvMuni[0]);

char municipal;

cout << "Here are all the municipalities in Iloilo: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << IloiloProvMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Ajuy.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Alimodian.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Anilao.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Badiangan.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Balasan.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Banate.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Barotac Nuevo.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Barotac Viejo.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Batad.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Bingawan.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Cabatuan.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Calinog.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Carles.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Concepcion.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Dingle.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Duenas.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Dumangas.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Estancia.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Guimbal.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of Igbaras.\n";

break;

}

case 21:{

cout << "You have chosen the municipality of Janiuay.\n";

break;

}

case 22:{

cout << "You have chosen the municipality of Lambunao.\n";

break;

}

case 23:{

cout << "You have chosen the municipality of Leganes.\n";

break;

}

case 24:{

cout << "You have chosen the municipality of Lemery.\n";

break;

}

case 25:{

cout << "You have chosen the municipality of Leon.\n";

break;

}

case 26:{

cout << "You have chosen the municipality of Maasin.\n";

break;

}

case 27:{

cout << "You have chosen the municipality of Miagao.\n";

break;

}

case 28:{

cout << "You have chosen the municipality of Mina.\n";

break;

}

case 29:{

cout << "You have chosen the municipality of New Lucena.\n";

break;

}

case 30:{

cout << "You have chosen the municipality of Oton.\n";

break;

}

case 31:{

cout << "You have chosen the municipality of Pavia.\n";

break;

}

case 32:{

cout << "You have chosen the municipality of Pototan.\n";

break;

}

case 33:{

cout << "You have chosen the municipality of San Dionisio.\n";

break;

}

case 34:{

cout << "You have chosen the municipality of San Enrique.\n";

break;

}

case 35:{

cout << "You have chosen the municipality of San Joaquin.\n";

break;

}

case 36:{

cout << "You have chosen the municipality of San Miguel.\n";

break;

}

case 37:{

cout << "You have chosen the municipality of San Rafael.\n";

break;

}

case 38:{

cout << "You have chosen the municipality of Santa Barbara.\n";

break;

}

case 39:{

cout << "You have chosen the municipality of Sara.\n";

break;

}

case 40:{

cout << "You have chosen the municipality of Tigbauan.\n";

break;

}

case 41:{

cout << "You have chosen the municipality of Tubungan.\n";

break;

}

case 42:{

cout << "You have chosen the municipality of Zarraga.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (westernvis == 6){

cout << "You have chosen Negros Occidental. " << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Negros Occidental: " << endl;

cout << "1. Bago\n";

cout << "2. Cadiz\n";

cout << "3. Escalante\n";

cout << "4. Himamaylan\n";

cout << "5. Kabankalan\n";

cout << "6. La Carlota\n";

cout << "7. Sagay\n";

cout << "8. San Carlos\n";

cout << "9. Silay\n";

cout << "10. Sipalay\n";

cout << "11. Talisay\n";

cout << "12. Victorias\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(BagoBrgys)/sizeof(BagoBrgys[0]);

cout << "You have chosen the city of Bago.\n";

cout << "Information about city\n";

cout << "The City of Bago is a 2nd class component city. It is known as the Home of Historical and Natural Treasures, owing to its contribution in the colorful history of Negros Occidental. With its abundance in flora and fauna, it provides a beautiful scenery.\n";

cout << "The City of Bago's ZIP code is 6101.\n";

cout << "According to the 2020 census, its total population is 191,210.\n";

cout << "Here are all the barangays in Bago: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BagoBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(CadizBrgys)/sizeof(CadizBrgys[0]);

cout << "You have chosen the city of Cadiz.\n";

cout << "Mayor: Salvador G. Escalante Jr.\n";

cout << "The City of Cadiz is a 2nd class component city. Cadiz is rich in natural resources and considered as one of the few fishing centers of Negros Occidental. It is envisioned to be the seafood center of Negros.\n";

cout << "The City of Cadiz' ZIP code is 6121.\n";

cout << "According to the 2020 census, its total population is 158,544.\n";

cout << "Here are all the barangays in Cadiz: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CadizBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(EscalanteBrgys)/sizeof(EscalanteBrgys[0]);

cout << "You have chosen the city of Escalante.\n";

cout << "Mayor: Melecio J. Yap Jr.\n";

cout << "The City of Escalante is a 4th class component city. Escalante is known for its coastal environment, local delicary like the Panyam, and very cheerful individuals.\n";

cout << "The City of Escalante's ZIP code is 6124.\n";

cout << "According to the 2020 census, its total population is 96,159.\n";

cout << "Here are all the barangays in Escalante: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << EscalanteBrgys[i] << "\n";

}

break;

}

case 4:{

int barangayCount = sizeof(HimamaylanBrgys)/sizeof(HimamaylanBrgys[0]);

cout << "You have chosen the city of Himamaylan.\n";

cout << "Mayor: Rogelio Raymund I. Tongson\n";

cout << "The City of Himamaylan is a 3rd class component city. It served as a garrison for Spanish forces back in 1795. It also houses many natural attractions including waterfalls, caves, and springs.\n";

cout << "The City of Himamaylan's ZIP code is 6108.\n";

cout << "According to the 2020 census, its total population is 116,240.\n";

cout << "Here are all the barangays in Himamaylan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << HimamaylanBrgys[i] << "\n";

}

break;

}

case 5:{

int barangayCount = sizeof(KabankalanBrgys)/sizeof(KabankalanBrgys[0]);

cout << "You have chosen the city of Kabankalan.\n";

cout << "Mayor: Benjie M. Miranda\n";

cout << "The City of Kabankalan is a 1st class component city. It is the largest city in the Negros Occidental Province. It is one of the most competitive, most bankable, cleanest, and most livable city in the island of Negros. Kabankalan is where you would also find the Central Philippines State University.\n";

cout << "The City of Kabankalan's ZIP code is 6111\n";

cout << "According to the 2020 census, its total population is 200,198. However, according to the 2024 census, its total is now 323,108.\n";

cout << "Here are all the barangays in Kabankalan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << KabankalanBrgys[i] << "\n";

}

break;

}

case 6:{

int barangayCount = sizeof(LaCarlotaBrgys)/sizeof(LaCarlotaBrgys[0]);

cout << "You have chosen the city of La Carlota.\n";

cout << "Mayor: Rex R. Jalandoon\n";

cout << "The City of La Carlota is a 4th class component city. It is known as The Drum Beating of Beauty and Dance because of its vibrant festivals. La Carlota is also one of the major sugar-producing cities in the Philippines.\n";

cout << "The City of La Carlota's ZIP code is 6130.\n";

cout << "According to the 2020 census, its total population is 66,664.\n";

cout << "Here are all the barangays in La Carlota: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << LaCarlotaBrgys[i] << "\n";

}

break;

}

case 7:{

int barangayCount = sizeof(SagayBrgys)/sizeof(SagayBrgys[0]);

cout << "You have chosen the city of Sagay.\n";

cout << "Mayor: Narciso L. Javelola Jr.\n";

cout << "The City of Sagay is a 2nd class component city. It is famous for its lucrative fishing industry and their marine ecosystem. The City Garden and the Living Tree Museum is also situated in Sagay.\n";

cout << "The City of Sagay's ZIP code is 6122, 6123(Paraiso/Fabrica)\n";

cout << "According to the 2020 census, its total population is 148,894.\n";

cout << "Here are all the barangays in Sagay: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SagayBrgys[i] << "\n";

}

break;

}

case 8:{

int barangayCount = sizeof(SanCarlosNegrosBrgys)/sizeof(SanCarlosNegrosBrgys[0]);

cout << "You have chosen the city of San Carlos.\n";

cout << "Mayor: Renato Y. Gustilo\n";

cout << "The City of San Carlos is a 2nd class component city. Known for its large amount of sugarcane production. \n";

cout << "The City of San Carlos' ZIP code is 6127.\n";

cout << "According to the 2020 census, its total population is 132,650.\n";

cout << "Here are all the barangays in San Carlos: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SanCarlosNegrosBrgys[i] << "\n";

}

break;

}

case 9:{

int barangayCount = sizeof(SilayBrgys)/sizeof(SilayBrgys[0]);

cout << "You have chosen the city of Silay.\n";

cout << "Mayor: Joedith C. Gallego\n";

cout << "The City of Silay is a 3rd class component city. It is known as the Paris of Negros and the Cultrual and Intellectual Hub of Negros because the residents love for knowledge and works of art.\n";

cout << "The City of Silay's ZIP code is 6116, 6117\n";

cout << "According to the 2020 census, its total population is 130,478.\n";

cout << "Here are all the barangays in Silay: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SilayBrgys[i] << "\n";

}

break;

}

case 10:{

int barangayCount = sizeof(SipalayBrgys)/sizeof(SipalayBrgys[0]);

cout << "You have chosen the city of Sipalay.\n";

cout << "Mayor: Maria Gina M. Lizares\n";

cout << "The City of Sipalay is a 4th class component city. It is the top tourist destination in Negros Occidental. It is famous for its natural , untouched, beautiful, and pristine beaches. It is dubbed as the uncommercialized New Boracay of Negros.\n";

cout << "The City of Sipalay's ZIP code is 6113.\n";

cout << "According to the 2020 census, its total population is 72,448.\n";

cout << "Here are all the barangays in Sipalay: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SipalayBrgys[i] << "\n";

}

break;

}

case 11:{

int barangayCount = sizeof(TalisayBrgys)/sizeof(TalisayBrgys[0]);

cout << "You have chosen the city of Talisay.\n";

cout << "Mayor: Nilo Jesus Antonio E. Lizares III\n";

cout << "The City of Talisay is a 4th class component city. Talisay is known as a monocrop farm for sugarcane. Haciendas were created for large hectares of sugarcanes.\n";

cout << "The City of Talisay's ZIP code is 6115.\n";

cout << "According to the 2020 census, its total population is 108,909.\n";

cout << "Here are all the barangays in Talisay: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TalisayBrgys[i] << "\n";

}

break;

}

case 12:{

int barangayCount = sizeof(VictoriasBrgys)/sizeof(VictoriasBrgys[0]);

cout << "You have chosen the city of Victorias\n";

cout << "Mayor: Javier Miguel L. Benitez\n";

cout << "The City of Victorias is a 4th class component city. It is home to the largest sugarmill and refinery in South East Asia. It is also the center of Agri-Eco Tourism in Northern Negros.\n";

cout << "The City of Victorias' ZIP code is 6119.\n";

cout << "According to the 2020 census, its total population is 90,101.\n";

cout << "Here are all the barangays in Victorias: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << VictoriasBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Negros Occidental: " << endl;

cout << "1. Binalbagan\n";

cout << "2. Calatrava\n";

cout << "3. Candoni\n";

cout << "4. Cauayan\n";

cout << "5. Enrique B. Magalona\n";

cout << "6. Hinigaran\n";

cout << "7. Hinoba-an\n";

cout << "8. Ilog\n";

cout << "9. Isabela\n";

cout << "10. La Castellana\n";

cout << "11. Manapla\n";

cout << "12. Moises Padilla\n";

cout << "13. Murcia\n";

cout << "14. Pontevedra\n";

cout << "15. Pulupandan\n";

cout << "16. Salvador Benedicto\n";

cout << "17. San Enrique\n";

cout << "18. Toboso\n";

cout << "19. Valladolid\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Binalbagan.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Calatrava.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Candoni.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Cauayan.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Enrique B. Magalona.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Hinigaran.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Hinoba-an.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Ilog.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Isabela.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of La Castellana.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Manapla.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Moises Padilla.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Murcia.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Pontevedra.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Pulupandan.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Salvador Benedicto.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of San Enrique.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Toboso.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Valladolid.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

break;

}

}

case 8: {

char prov;

char cmb;

cout << "REGION VII - Central Visayas" << endl;

cout << "Central Visayas is known for its historical landmarks, like the Magellan's Cross, unspoiled natural wonders, and beautiful terrains like the Chocolate Hills. " << endl;

cout << "It has a total of 8,081,988 people as of 2020." << endl;

cout << "It has 4 provinces, 16 cities, 116 municipalities, and 3,003 barangays." << endl;

cout << "Would you like to find out about the different provinces in Central Visayas? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int centralvis;

cout << "Here are all the provinces in Central Visayas: " << endl;

cout << "1. Bohol\n";

cout << "2. Cebu\n";

cout << "3. Negros Oriental\n";

cout << "4. Siquijor\n";

cout << "Choose from 1-4 to find out more about the different provinces: ";

cin >> centralvis;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (centralvis == 1){

cout << "You have chosen Bohol. " << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Bohol: " << endl;

cout << "Tagbilaran - Capital of Bohol\n";

cout << "Would you like to find out more about Tagbilaran and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(TagbilaranBrgys)/sizeof(TagbilaranBrgys[0]);

cout << "Mayor: Jane C. Yap\n";

cout << "The City of Tagbilaran is a 3rd class component city and the capital of Bohol. It is best known as the gateway to the island of Bohol and for its port. It is also known as the City of Frinedship due to the first international treaty of friendship and comity between the Filipinos and Spaniards.\n";

cout << "The City of Tagbilaran's ZIP code is 6300.\n";

cout << "According to the 2020 census, its total population is 104,976.\n";

cout << "Here are all the barangays in Tagbilaran:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TagbilaranBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(BoholMuni)/sizeof(BoholMuni[0]);

char municipal;

cout << "Here are all the municipalities in Bohol: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << BoholMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Alburquerque\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Alicia\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Anda\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Antequera\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Baclayon\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Balilihan\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Batuan\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Bien Unido\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Bilar\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Buenavista\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Calape\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Candijay\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Carmen\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Catigbian\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Clarin\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Corella\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Cortes\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Dagohoy\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Danao\n";

break;

}

case 20:{

cout << "You have chosen the municipality of Dauis\n";

break;

}

case 21:{

cout << "You have chosen the municipality of Dimiao\n";

break;

}

case 22:{

cout << "You have chosen the municipality of Duero\n";

break;

}

case 23:{

cout << "You have chosen the municipality of Garcia Hernandez\n";

break;

}

case 24:{

cout << "You have chosen the municipality of Getafe\n";

break;

}

case 25:{

cout << "You have chosen the municipality of Guindulman\n";

break;

}

case 26:{

cout << "You have chosen the municipality of Inabanga\n";

break;

}

case 27:{

cout << "You have chosen the municipality of Jagna\n";

break;

}

case 28:{

cout << "You have chosen the municipality of Lila\n";

break;

}

case 29:{

cout << "You have chosen the municipality of Loay\n";

break;

}

case 30:{

cout << "You have chosen the municipality of Loboc\n";

break;

}

case 31:{

cout << "You have chosen the municipality of Loon\n";

break;

}

case 32:{

cout << "You have chosen the municipality of Mabini\n";

break;

}

case 33:{

cout << "You have chosen the municipality of Maribojoc\n";

break;

}

case 34:{

cout << "You have chosen the municipality of Panglao\n";

break;

}

case 35:{

cout << "You have chosen the municipality of Pilar\n";

break;

}

case 36:{

cout << "You have chosen the municipality of President Carlos P. Garcia\n";

break;

}

case 37:{

cout << "You have chosen the municipality of Sagbayan\n";

break;

}

case 38:{

cout << "You have chosen the municipality of San Isidro\n";

break;

}

case 39:{

cout << "You have chosen the municipality of San Miguel\n";

break;

}

case 40:{

cout << "You have chosen the municipality of Sevilla\n";

break;

}

case 41:{

cout << "You have chosen the municipality of Sierra Bullones\n";

break;

}

case 42:{

cout << "You have chosen the municipality of Sikatuna\n";

break;

}

case 43:{

cout << "You have chosen the municipality of Talibon\n";

break;

}

case 44:{

cout << "You have chosen the municipality of Trinidad\n";

break;

}

case 45:{

cout << "You have chosen the municipality of Tubigon\n";

break;

}

case 46:{

cout << "You have chosen the municipality of Ubay\n";

break;

}

case 47:{

cout << "You have chosen the municipality of Valencia\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (centralvis == 2){

cout << "You have chosen Cebu. " << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Cebu: " << endl;

cout << "1. Bogo\n";

cout << "2. Carcar\n";

cout << "3. Cebu City - Capital of Cebu Province and Regional Center of Central Visayas\n";

cout << "4. Danao\n";

cout << "5. Lapu-Lapu\n";

cout << "6. Mandaue\n";

cout << "7. Naga\n";

cout << "8. Talisay\n";

cout << "9. Toledo\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1:{

int barangayCount = sizeof(BogoBrgys)/sizeof(BogoBrgys[0]);

cout << "You have chosen the city of Bogo.\n";

cout << "Mayor: Carlo Jose A. Martinez\n";

cout << "The City of Bogo is a 6th class component city. They are also known for their sugarcane production and fisher. The Kuyayang Festival is also in Bogo that happens every May 26.\n";

cout << "The City of Bogo's ZIP code is 6010.\n";

cout << "According to the 2020 census, its total population is 88,867.\n";

cout << "Here are all the barangays in Bogo: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BogoBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(CarcarBrgys)/sizeof(CarcarBrgys[0]);

cout << "You have chosen the city of Carcar.\n";

cout << "Mayor: Mario Patricio P. Barcenas\n";

cout << "The City of Carcar is a 5th class component city. It is known as the Heritage Town of Cebu because of its buildings' structures that were built durnig the Spanish and Americal colonial periods.\n";

cout << "The City of Carcar's ZIP code is 6019.\n";

cout << "According to the 2020 census, its total population is 136,453.\n";

cout << "Here are all the barangays in Carcar:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CarcarBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(CebuCityBrgys)/sizeof(CebuCityBrgys[0]);

cout << "You have chosen the city of Cebu.\n";

cout << "Mayor: Raymond Alvin N. Garcia\n";

cout << "The City of Cebu is a 1st class highly urbanized city and the capital of Cebu Province. Known as the Queen of the South, it is the oldest city in the Philippines and one of its first capital. It is famous for its historical sites like the Magellan's Cross. \n";

cout << "The City of Cebu's ZIP code is 6000.\n";

cout << "According to the 2020 census, its total population is 964,169.\n";

cout << "Here are all the barangays in the city of Cebu:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CebuCityBrgys[i] << "\n";

}

break;

}

case 4:{

int barangayCount = sizeof(DanaoBrgys)/sizeof(DanaoBrgys[0]);

cout << "You have chosen the city of Danao.\n";

cout << "Mayor: Thomas Mark H. Durano\n";

cout << "The City of Danao is a 3rd class component city. It is a service centre for the coastal agricultural area that produces rice and corn. They are also known for their homemade guns.\n";

cout << "The City of Danao's ZIP code is 6004.\n";

cout << "According to the 2020 census, its total population is 153,321.\n";

cout << "Here are all the barangays in Danao:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << DanaoBrgys[i] << "\n";

}

break;

}

case 5:{

int barangayCount = sizeof(LapuLapuBrgys)/sizeof(LapuLapuBrgys[0]);

cout << "You have chosen the city of Lapu-Lapu.\n";

cout << "Mayor: Junard 'Ahong' Chan\n";

cout << "The City of Lapu-Lapu is a 1st class highly urbanized city situated in the Cebu province. It was formerly called Opon, however, was renamed in honor of Lapulapu, a national hero, who killed Ferdinand Magellan. \n";

cout << "The City of Lapu-Lapu's ZIP code is 6015, 6016(Mactan-Cebu International Airport)\n";

cout << "According to the 2020 census, its total population is 497,604.\n";

cout << "Here are all the barangays in Lapu-Lapu.\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << LapuLapuBrgys[i] << "\n";

}

break;

}

case 6:{

int barangayCount = sizeof(MandaueBrgys)/sizeof(MandaueBrgys[0]);

cout << "You have chosen the city of Mandaue.\n";

cout << "Mayor: Jonas Cortes\n";

cout << "The City of Mandaue is a 1st class highly urbanized city situated in the Cebu province. It is known as the Industrial City of the Southern Philippines, Furniture Capital of the Philippines. \n";

cout << "The City of Mandaue's ZIP code is 6014.\n";

cout << "According to the 2020 census, its total population is 364,116.\n";

cout << "Here are all the barangays in Mandaue:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << MandaueBrgys[i] << "\n";

}

break;

}

case 7:{

int barangayCount = sizeof(NagaCebuBrgys)/sizeof(NagaCebuBrgys[0]);

cout << "You have chosen the city of Naga.\n";

cout << "Mayor: Valdemar M. Chiong\n";

cout << "The City of Naga is a 3rd class component city. It is famous for its picture perfect peak, rolling hills, and a gorgeous boardwalk.\n";

cout << "The City of Naga's ZIP code is 6037.\n";

cout << "According to the 2020 census, its total population is 133,184.\n";

cout << "Here are all the barangays in Naga:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << NagaCebuBrgys[i] << "\n";

}

break;

}

case 8:{

int barangayCount = sizeof(TalisayCebuBrgys)/sizeof(TalisayCebuBrgys[0]);

cout << "You have chosen the city of Talisay.\n";

cout << "Mayor: Gerald Anthongy Gullas Jr. \n";

cout << "The City of Talisay is a 3rd class component city. It was a haven of colonial military forces back in WW2. It was the center of guerilla intelligence for operations for the Philippine resistance movement in Cebu.\n";

cout << "The City of Talisay's ZIP code is 6045.\n";

cout << "According to the 2020 census, its total population is 263,048.\n";

cout << "Here are all the barangays in Talisay:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TalisayCebuBrgys[i] << "\n";

}

break;

}

case 9:{

int barangayCount = sizeof(ToledoBrgys)/sizeof(ToledoBrgys[0]);

cout << "You have chosen the city of Toledo.\n";

cout << "Mayor: Marjorie Piczon Perales\n";

cout << "The City of Toledo is a 1st class component city. It was the site of the Philippines' largest copper mine until it was closed back in 1994 due to flooding. Operations, however, resumed in 2008.\n";

cout << "The City of Toledo's ZIP code is 6038.\n";

cout << "According to the 2020 census, its total population is 207,314.\n";

cout << "Here are all the barangays in Toledo:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << ToledoBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(CebuProvMuni)/sizeof(CebuProvMuni[0]);

char municipal;

cout << "Here are all the municipalities in Cebu: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << CebuProvMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Alcantara\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Alcoy\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Alegria\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Aloguinsan\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Argao\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Asturias\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Badian\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Balamban\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Bantayan\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Barili\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Boljoon\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Borbon\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Carmen\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Catmon\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Compostela\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Consolacion\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Cordova\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Daanbantayan\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Dalaguete\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Dumanjug\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Ginatilan\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Liloan\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Madridejos\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Malabuyoc\n";

break;

}

case 25: {

cout << "You have chosen the municipality of Medellin\n";

break;

}

case 26: {

cout << "You have chosen the municipality of Minglanilla\n";

break;

}

case 27: {

cout << "You have chosen the municipality of Moalboal\n";

break;

}

case 28: {

cout << "You have chosen the municipality of Oslob\n";

break;

}

case 29: {

cout << "You have chosen the municipality of Pilar\n";

break;

}

case 30: {

cout << "You have chosen the municipality of Pinamungajan\n";

break;

}

case 31: {

cout << "You have chosen the municipality of Poro\n";

break;

}

case 32: {

cout << "You have chosen the municipality of Ronda\n";

break;

}

case 33: {

cout << "You have chosen the municipality of Samboan\n";

break;

}

case 34: {

cout << "You have chosen the municipality of San Fernando\n";

break;

}

case 35: {

cout << "You have chosen the municipality of San Francisco\n";

break;

}

case 36: {

cout << "You have chosen the municipality of San Remigio\n";

break;

}

case 37: {

cout << "You have chosen the municipality of Santa Fe\n";

break;

}

case 38: {

cout << "You have chosen the municipality of Santander\n";

break;

}

case 39: {

cout << "You have chosen the municipality of Sibonga\n";

break;

}

case 40: {

cout << "You have chosen the municipality of Sogod\n";

break;

}

case 41: {

cout << "You have chosen the municipality of Tabogon\n";

break;

}

case 42: {

cout << "You have chosen the municipality of Tabuelan\n";

break;

}

case 43: {

cout << "You have chosen the municipality of Talisay\n";

break;

}

case 44: {

cout << "You have chosen the municipality of Toledo\n";

break;

}

case 45: {

cout << "You have chosen the municipality of Tuburan\n";

break;

}

case 46: {

cout << "You have chosen the municipality of Tudela\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

}

else if (centralvis == 3){

cout << "You have chosen Negros Oriental. " << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Negros Oriental: " << endl;

cout << "1. Bais\n";

cout << "2. Bayawan\n";

cout << "3. Canlaon\n";

cout << "4. Dumaguete - Capital of Negros Oriental\n";

cout << "5. Guihulngan\n";

cout << "6. Tanjay\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(BaisBrgys)/sizeof(BaisBrgys[0]);

cout << "You have chosen the city of Bais.\n";

cout << "Mayor: Luigi Marcel T. Goni\n";

cout << "The City of Bais is a 3rd class component city. Bais is considered as one of the cleanest and safest cities in the Philippines. It is famous for its Dolphin and Whale watching. \n";

cout << "The City of Bais' ZIP code is 6206.\n";

cout << "According to the 2020 census, its total population is 84,317.\n";

cout << "Here are all the barangays in Bais: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BaisBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(BayawanBrgys)/sizeof(BayawanBrgys[0]);

cout << "You have chosen the city of Bayawan.\n";

cout << "Mayor: John T. Raymond Jr. \n";

cout << "The City of Bayawan is a 1st class component city. It is known as the Agricultural Capital of Negros Oriental. It was also a pioneer of being DOH certified in the Philippines.\n";

cout << "The City of Bayawan's ZIP code is 6221.\n";

cout << "According to the 2020 census, its total population is 122,747.\n";

cout << "Here are all the barangays in Bayawan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BayawanBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(CanlaonBrgys)/sizeof(CanlaonBrgys[0]);

cout << "You have chosen the city of Canlaon.\n";

cout << "Mayor: Jose Chubasco B. Cardenas\n";

cout << "The City of Canlaon is a 4th class component city. It is known as the vegetable basket and highland garden of Negros Oriental because of its many crops including potatoes, cauliflower, broccoli, carrots, ginger, and spring onions.\n";

cout << "The City of Canlaon's ZIP code is 6223.\n";

cout << "According to the 2020 census, its total population is 58,822.\n";

cout << "Here are all the barangays in Canlaon: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CanlaonBrgys[i] << "\n";

}

break;

}

case 4:{

int barangayCount = sizeof(DumagueteBrgys)/sizeof(DumagueteBrgys[0]);

cout << "You have chosen the city of Dumaguete.\n";

cout << "Mayor: Hon. Felipe Antonio Remollo\n";

cout << "The City of Dumaguete is a 2nd class component city and capital of Negros Oriental province. It is known as The City of Gentle People because of how hospitable and friendly they are. It is also referred to as the university becaues of 4 universities and a number of colleges. \n";

cout << "The City of Dumaguete's ZIP code is 6200.\n";

cout << "According to the 2020 census, its total population is 134,103.\n";

cout << "Here are all the barangays in Dumaguete: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << DumagueteBrgys[i] << "\n";

}

break;

}

case 5:{

int barangayCount = sizeof(GuihulnganBrgys)/sizeof(GuihulnganBrgys[0]);

cout << "You have chosen the city of Guihulngan.\n";

cout << "Mayor: Filomeno L. Reyes\n";

cout << "The City of Guihulngan is a 5th class component city. It has an agricultural economy focused on sugar cane, copra, rice, and tobacco. This is where you can also find the Chocolate Hills.\n";

cout << "The City of Guihulngan's ZIP code is 6214.\n";

cout << "According to the 2020 census, its total population is 105,656.\n";

cout << "Here are all the barangays in Guihulngan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << GuihulnganBrgys[i] << "\n";

}

break;

}

case 6:{

int barangayCount = sizeof(TanjayBrgys)/sizeof(TanjayBrgys[0]);

cout << "You have chosen the city of Tanjay.\n";

cout << "Mayor: Jose T. Orlino\n";

cout << "The City of Tanjay is a 4th class component city. It is best known for its vibrant festivals that showcase the city's music, dance, and culture. These festivals include the Sinulog Festival, Bugwas Festival, and the Pasalamat Festival.\n";

cout << "The City of Tanjay's ZIP code is 6204.\n";

cout << "According to the 2020 census, its total population is 82,642.\n";

cout << "Here are all the barangays in Tanjay: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TanjayBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Negros Oriental: " << endl;

cout << "1. Amlan\n";

cout << "2. Ayungon\n";

cout << "3. Bacong\n";

cout << "4. Basay\n";

cout << "5. Bindoy\n";

cout << "6. Dauin\n";

cout << "7. Jimalalud\n";

cout << "8. La Libertad\n";

cout << "9. Mabinay\n";

cout << "10. Manjuyod\n";

cout << "11. Pamplona\n";

cout << "12. San Jose\n";

cout << "13. Santa Catalina\n";

cout << "14. Siaton\n";

cout << "15. Sibulan\n";

cout << "16. Tayasan\n";

cout << "17. Valencia\n";

cout << "18. Vallehermoso\n";

cout << "19. Zamboanguita\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Amlan.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Ayungon.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Bacong.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Basay.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Bindoy.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Dauin.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Jimalalud.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of La Libertad.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Mabinay.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Manjuyod.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Pamplona.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of San Jose.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Santa Catalina.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Siaton.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Sibulan.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Tayasan.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Valencia.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Vallehermoso.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of Zamboanguita.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (centralvis == 4){

cout << "You have chosen Siquijor. " << endl;

cout << "Siquijor has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Siquijor: " << endl;

cout << "1. Enrique Villanueva\n";

cout << "2. Larena\n";

cout << "3. Lazi\n";

cout << "4. Maria\n";

cout << "5. San Juan\n";

cout << "6. Siquijor - Capital of Siquijor Province\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Enrique Villanueva.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Larena.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Lazi.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Maria.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of San Juan.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Siquijor.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

case 9: {

char prov;

char cmb;

cout << "REGION VIII - Eastern Visayas" << endl;

cout << "Eastern Visayas is known for being the third largest coconut-growing region in the Philippines. It is also known as the Geothermal Capital of the Philippines for their geothermal power reserves." << endl;

cout << "It has a total of 4,547,150 people as of 2020." << endl;

cout << "It has 6 provinces, 7 cities, 136 municipalities, and 4,390 barangays." << endl;

cout << "Would you like to find out about the different provinces in Eastern Visayas? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int easternvis;

cout << "Here are all the provinces in Eastern Visayas: " << endl;

cout << "1. Biliran\n";

cout << "2. Eastern Samar\n";

cout << "3. Leyte\n";

cout << "4. Northern Samar\n";

cout << "5. Samar\n";

cout << "6. Southern Leyte\n";

cout << "Choose from 1-6 to find out more about the different provinces: ";

cin >> easternvis;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (easternvis == 1){

cout << "You have chosen Biliran. " << endl;

cout << "Biliran has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Biliran: " << endl;

cout << "1. Almeria\n";

cout << "2. Biliran\n";

cout << "3. Cabucgayan\n";

cout << "4. Caibiran\n";

cout << "5. Culaba\n";

cout << "6. Kawayan\n";

cout << "7. Maripipi\n";

cout << "8. Naval - Capital of Biliran\n";

cout << "Would you like to find out more about the municipalities and the barangays within them? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Almeria.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Biliran.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Cabucgayan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Caibiran.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Culaba.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Kawayan.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Maripipi.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Naval.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (easternvis == 2){

cout << "You have chosen Eastern Samar. " << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Eastern Samar: " << endl;

cout << "Borongan - Capital of Eastern Samar\n";

cout << "Would you like to find out more about Borongan and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(BoronganBrgys)/sizeof(BoronganBrgys[0]);

cout << "Mayor: Jose Ivan Dayan C. Agda\n";

cout << "The City of Borongan is a 1st class component city and the capital of Eastern Samar. It is known for its golden sunrise and fog covered mountains. It is considered as a surfer's paradise during the rainy months.\n";

cout << "The City of Borongan's ZIP code is 6800.\n";

cout << "Here are all the barangays in Borongan:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BoronganBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(EasternSamarMuni)/sizeof(EasternSamarMuni[0]);

char municipal;

cout << "Here are all the municipalities in Eastern Samar: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << EasternSamarMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities and the barangays within them? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Arteche.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Balangiga.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Balangkayan.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Can-avid.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Dolores.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of General MacArthur.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Giporlos.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Guiuan.\n";

break;

}

case 9:{

cout << "You have chosen the municipality of Hernani.\n";

break;

}

case 10:{

cout << "You have chosen the municipality of Jipapad.\n";

break;

}

case 11:{

cout << "You have chosen the municipality of Lawaan.\n";

break;

}

case 12:{

cout << "You have chosen the municipality of Llorente.\n";

break;

}

case 13:{

cout << "You have chosen the municipality of Maslog.\n";

break;

}

case 14:{

cout << "You have chosen the municipality of Maydolong.\n";

break;

}

case 15:{

cout << "You have chosen the municipality of Mercedes.\n";

break;

}

case 16:{

cout << "You have chosen the municipality of Oras.\n";

break;

}

case 17:{

cout << "You have chosen the municipality of Quinapondan.\n";

break;

}

case 18:{

cout << "You have chosen the municipality of Salcedo.\n";

break;

}

case 19:{

cout << "You have chosen the municipality of San Julian.\n";

break;

}

case 20:{

cout << "You have chosen the municipality of San Policarpo.\n";

break;

}

case 21:{

cout << "You have chosen the municipality of Sulat.\n";

break;

}

case 22:{

cout << "You have chosen the municipality of Taft.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (easternvis == 3){

cout << "You have chosen Leyte." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Leyte: " << endl;

cout << "1. Baybay\n";

cout << "2. Ormoc\n";

cout << "3. Tacloban City - Capital of Leyte and Regional Center of Eastern Visayas.\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(BaybayBrgys)/sizeof(BaybayBrgys[0]);

cout << "You have chosen the city of Baybay.\n";

cout << "Mayor: Jose Carlos L. Cari\n";

cout << "The City of Baybay is a 1st class component city. It is known for its natural attractions like rivers, hot springs, nature pool and falls, beaches, caves, and old relics. It is also home to the Visayas State University which specializes in agricultural research and education.\n";

cout << "The City of Baybay's ZIP code is 6521.\n";

cout << "According to the 2020 census, its total population is 111,848.\n";

cout << "Here are all the barangays in Baybay:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BaybayBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(OrmocBrgys)/sizeof(OrmocBrgys[0]);

cout << "You have chosen the city of Ormoc.\n";

cout << "Mayor: Lucy Torres Gomez\n";

cout << "The City of Ormoc is a 1st class independent component city situated in Leyte province. It is called the City by the Bay and the City of Beautiful People because of their charming individuals.\n";

cout << "The City of Ormoc's ZIP code is 6541.\n";

cout << "According to the 2020 census, its total population is 230,998.\n";

cout << "Here are all the barangays in Ormoc: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << OrmocBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(TaclobanBrgys)/sizeof(TaclobanBrgys[0]);

cout << "You have chosen the city of Tacloban.\n";

cout << "Mayor: Alfred Romualdez\n";

cout << "The City of Tacloban is 1st class highly urbanized city which is the capital of Leyte and is also the Regional Center of Eastern Visayas. It is famous for its San Juanico Bridge which is the longest bridge in the Philippines.\n";

cout << "The City of Tacloban's ZIP code is 6500.\n";

cout << "According to the 2020 census, its total population is 251,881.\n";

cout << "Here are all the barangays in Tacloban: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TaclobanBrgys[i] << "\n";

}

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(LeyteProvMuni)/sizeof(LeyteProvMuni[0]);

char municipal;

cout << "Here are all the municipalities in Leyte: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << LeyteProvMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1: {

cout << "You have chosen the municipality of Abuyog.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Alangalang.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Albuera.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Babatngon.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Barugo.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Bato.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Burauen.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Calubian.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Capoocan.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Carigara.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Dagami.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Dulag.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Hilongos.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Hindang.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Inopacan.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Isabel.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Jaro.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Javier.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Julita.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Kananga.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of La Paz.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Leyte.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of MacArthur.\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Mahaplag.\n";

break;

}

case 25: {

cout << "You have chosen the municipality of Matag-ob.\n";

break;

}

case 26: {

cout << "You have chosen the municipality of Matalom.\n";

break;

}

case 27: {

cout << "You have chosen the municipality of Mayorga.\n";

break;

}

case 28: {

cout << "You have chosen the municipality of Merida.\n";

break;

}

case 29: {

cout << "You have chosen the municipality of Palo.\n";

break;

}

case 30: {

cout << "You have chosen the municipality of Palompon.\n";

break;

}

case 31: {

cout << "You have chosen the municipality of Pastrana.\n";

break;

}

case 32: {

cout << "You have chosen the municipality of San Isidro.\n";

break;

}

case 33: {

cout << "You have chosen the municipality of San Miguel.\n";

break;

}

case 34: {

cout << "You have chosen the municipality of Santa Fe.\n";

break;

}

case 35: {

cout << "You have chosen the municipality of Tabango.\n";

break;

}

case 36: {

cout << "You have chosen the municipality of Tabontabon.\n";

break;

}

case 37: {

cout << "You have chosen the municipality of Tanauan.\n";

break;

}

case 38: {

cout << "You have chosen the municipality of Tolosa.\n";

break;

}

case 39: {

cout << "You have chosen the municipality of Tungasan.\n";

break;

}

case 40: {

cout << "You have chosen the municipality of Villaba.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (easternvis == 4){

cout << "You have chosen Northern Samar. " << endl;

cout << "Northern Samar has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

int muniCount = sizeof(NorthernSamarMuni)/sizeof(NorthernSamarMuni[0]);

char municipal;

cout << "Here are all the municipalities in Northern Samar: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << NorthernSamarMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1: {

cout << "You have chosen the municipality of Allen.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Biri.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Bobon.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Capul.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Catarman.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Catubig.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Gamay.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Laoang.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Lapinig.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Las Navas.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Lavezares.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Lope de Vega.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Mapanas.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Mondragon.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Palapag.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Pambujan.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Rosario.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of San Antonio.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of San Isidro.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of San Jose.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of San Roque.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of San Vicente.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Silvino Lobos.\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Victoria.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (easternvis == 5){

cout << "You have chosen Samar." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Samar: " << endl;

cout << "1. Calbayog\n";

cout << "2. Catbalogan - Capital of Samar\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(CalbayogBrgys)/sizeof(CalbayogBrgys[0]);

cout << "You have chosen the city of Calbayog.\n";

cout << "Mayor: Raymond C. Uy\n";

cout << "The City of Calbayog is a 1st class component city. It is home to many waterfalls that it gained the title of City of Waterfalls. Their main industries are fishing and mat-making.\n";

cout << "The City of Calbayog's ZIP code is 6710.\n";

cout << "According to the 2020 census, its total population is 186,960.\n";

cout << "Here are all the barangays in Calbayog: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CalbayogBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(CatbaloganBrgys)/sizeof(CatbaloganBrgys[0]);

cout << "You have chosen the city of Catbalogan.\n";

cout << "Mayor: Dexter M. Uy\n";

cout << "The City of Catbalogan is a 5th class component city and capital city of Samar. It is Samar's main commercial, trading, educational, financial, and political center. \n";

cout << "The City of Catbalogan's ZIP code is 6700.\n";

cout << "According to the 2020 census, its total population is 106,440.\n";

cout << "Here are all the barangays in Catbalogan:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CatbaloganBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(SamarMuni)/sizeof(SamarMuni[0]);

char municipal;

cout << "Here are all the municipalities in Samar: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << SamarMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1: {

cout << "You have chosen the municipality of Almagro.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Basey.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Calbiga.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Daram.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Gandara.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Hinabangan.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Jiabong.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Marabut.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Matuguinao.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Motiong.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Pagsanghan.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Paranas.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Pinabacdao.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of San Jorge.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of San Jose de Buan.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of San Sebastian.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Santa Margarita.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Santa Rita.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Santo Nino.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Tagapul-an.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Talalora.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Tarangnan.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Villareal.\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Zumarraga.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (easternvis == 6){

cout << "You have chosen Southern Leyte. " << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Southern Leyte: " << endl;

cout << "Maasin - Capital of Southern Leyte.\n";

cout << "Would you like to find out more about Maasin and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(MaasinBrgys)/sizeof(MaasinBrgys[0]);

cout << "Mayor: Nacional V. Mercado\n";

cout << "The City of Maasin is a 4th class component city and capital of Southern Leyte. It is the commercial and religious center of Southern Leyte and is considered to be the Pilgrimage hub of Region 8.\n";

cout << "The City of Maasin's ZIP code is 6600.\n";

cout << "According to the 2020 census, its total population is 87,446.\n";

cout << "Here are all the barangays in :\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << MaasinBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(SouthernLeyteMuni)/sizeof(SouthernLeyteMuni[0]);

char municipal;

cout << "Here are all the municipalities in Southern Leyte: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << SouthernLeyteMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1: {

cout << "You have chosen the municipality of Anahawan.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Bontoc.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Hinunangan.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Hinundayan.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Libagon.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Liloan.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Limasawa.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Macrohon.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Malitbog.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Padre Burgos.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Pintuyan.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Saint Bernard.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of San Francisco.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of San Juan.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of San Ricardo.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Silago.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Sogod.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Tomas Oppus.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

case 10: {

char prov;

char cmb;

cout << "REGION IX - Zamboanga Peninsula" << endl;

cout << "Zamboanga Peninsula is filled with gold, silver, copper, chromite, iron, lead, and manganese. It is also known for their vast logs, lumber, veneer, and plywood export products.\n";

cout << "It has a total of 3,875,576 people as of 2020." << endl;

cout << "It has 3 provinces, 5 cities, 67 municipalities, and 1,904 barangays." << endl;

cout << "\nWould you like to find out about the different provinces in the Zamboanga Peninsula? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int zamboangapen;

cout << "Here are all the provinces in the Zamboanga Peninsula: " << endl;

cout << "1. Zamboanga del Norte\n";

cout << "2. Zamboanga del Sur\n";

cout << "3. Zamboanga Sibugay\n";

cout << "Choose from 1-3 to find out more about the different provinces: " << endl;

cin >> zamboangapen;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (zamboangapen == 1){

cout << "You have chosen Zamboanga Del Norte." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Zamboanga Del Norte: " << endl;

cout << "1. Dapitan City\n";

cout << "2. Dipolog - Capital of Zamboanga Del Norte\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(DapitanBrgys)/sizeof(DapitanBrgys[0]);

cout << "You have chosen the city of Dapitan.\n";

cout << "Mayor: Seth Frederick P. Jalosjos\n";

cout << "The City of Dapitan is a 3rd class component city. It is known as the Shrine Capital of the Philippines because of its historical ties to Jose Rizal, thus the Rizal Shrine.\n";

cout << "The City of Dapitan's ZIP code is 7101.\n";

cout << "According to the 2020 census, its total population is 85,202.\n";

cout << "Here are all the barangays in Dapitan: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << DapitanBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(DipologBrgys)/sizeof(DipologBrgys[0]);

cout << "You have chosen the city of Dipolog.\n";

cout << "Mayor: Darel Dexter T. Uy\n";

cout << "The City of Dipolog is a 3rd class component city and the capital of Zamboanga del Norte. It is known for its wild orchids and has been called the Bottled Sardines Capital of the Philippines because of its sardine industry. It is also known as the Gateway to Western Mindanao and Zamboanga Peninsula.\n";

cout << "The City of Dipolog's ZIP code is 7100.\n";

cout << "According to the 2020 census, its total population is 138,141.\n";

cout << "Here are all the barangays in Dipolog: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << DipologBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(ZamboangaNorteMuni)/sizeof(ZamboangaNorteMuni[0]);

char municipal;

cout << "Here are all the municipalities in Zamboanga Del Norte: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << ZamboangaNorteMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Baliguian.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Godod.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Gutalac.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Jose Dalman.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Kalawit.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Katipunan.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of La Libertad.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Labason.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Leon B. Postigo.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Liloy.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Manukan.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Mutia.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Pinan.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Polanco.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of President Manuel A. Roxas.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Rizal.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Salug.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Sergio Osmena SR.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Siayan.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Sibuco.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Sibutad.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Sindangan.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Siocon.\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Sirawai.\n";

break;

}

case 25: {

cout << "You have chosen the municipality of Tampilisan.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (zamboangapen == 2){

cout << "You have chosen Zamboanga Del Sur." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Zamboanga Del Sur: " << endl;

cout << "1. Pagadian - Capital of Zamboanga Del Sur and Regional Center of the Zamboanga Peninsula.\n";

cout << "2. Zamboanga City\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1:{

int barangayCount = sizeof(PagadianBrgys)/sizeof(PagadianBrgys[0]);

cout << "You have chosen the city of Pagadian.\n";

cout << "Mayor: Samuel S. Co\n";

cout << "The City of Pagadian is a 1st class component city and the capital of Zamboanga del Sur and the Regional Center of Zamboanga Peninsula. It is known as the Little Hong Kong of the South because of its mountainous terrain. \n";

cout << "The City of Pagadian's ZIP code is 7017.\n";

cout << "According to the 2020 census, its total population is 210,452.\n";

cout << "Here are all the barangays in Pagadian:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << PagadianBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(ZamboangaCityBrgys)/sizeof(ZamboangaCityBrgys[0]);

cout << "You have chosen the city of Zamboanga.\n";

cout << "Mayor: John M. Dalipe\n";

cout << "The City of Zamboanga is a 1st class highly urbanized city situated in Zamboanga del Sur. It is known as the City of Flowers and it is one of the most important and busiest port cities in the Philippines. It is also called Asia's Latin City because of the Chavacano language, a Spanish-based creole.\n";

cout << "The City of Zamboanga's ZIP code is 7000.\n";

cout << "According to the 2020 census, its total population is 977,234.\n";

cout << "Here are all the barangays in Zamboanga City:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << ZamboangaCityBrgys[i] << "\n";

}

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(ZamboangaSurMuni)/sizeof(ZamboangaSurMuni[0]);

char municipal;

cout << "Here are all the municipalities in Zamboanga Del Sur: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << ZamboangaSurMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Aurora.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Bayog.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Dimataling.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Dinas.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Dumalinao.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Dumingag.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Guipos.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Josefina.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Kumalarang.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Labangan.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Lakewood.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Lapuyan.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Mahayag.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Margosatubig.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Midsalip.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Molave.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Pitogo.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Ramon Magsaysay.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of San Miguel.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of San Pablo.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Sominot.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Tabina.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Tambulig.\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Tigbao.\n";

break;

}

case 25: {

cout << "You have chosen the municipality of Tukuran.\n";

break;

}

case 26: {

cout << "You have chosen the municipality of Vincenzo A. Sagun.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (zamboangapen == 3){

cout << "You have chosen Zamboanga Sibugay." << endl;

cout << "Zamboanga Sibugay has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Zamboanga Sibugay: " << endl;

cout << "1. Alicia\n";

cout << "2. Buug\n";

cout << "3. Diplahan\n";

cout << "4. Imelda\n";

cout << "5. Ipil - Capital of Zamboanga Sibugay\n";

cout << "6. Kabasalan\n";

cout << "7. Mabuhay\n";

cout << "8. Malangas\n";

cout << "9. Naga\n";

cout << "10. Olutanga\n";

cout << "11. Payao\n";

cout << "12. Roseller Lim\n";

cout << "13. Siay\n";

cout << "14. Talusan\n";

cout << "15. Titay\n";

cout << "16. Tungawan\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Alicia.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Buug.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Diplahan.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Imelda.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Ipil - Capital of Zamboanga Sibugay.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Kabasalan.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Mabuhay.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Malangas.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Naga.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Olutanga.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Payao.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Roseller Lim.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Siay.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Talusan.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Titay.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Tungawan.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

case 11: {

char prov;

char cmb;

cout << "REGION X - Northern Mindanao" << endl;

cout << "Northern Mindanao is renowned for its serene environment and progress, thanks to its vast agricultural and industrial land. Its strategic location for trade like presence of power generation service and huge potential for industrial development is further complemented by its abundance of natural wonders.\n";

cout << "It has a total of 5,022,767 people as of 2020.\n";

cout << "Has 5 provinces, 9 cities, 84 municipalities, and 2,022 barangays.\n";

cout << "Would you like to find out about the different provinces in Northern Mindanao? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int northernmind;

cout << "Here are all the provinces in Northern Mindanao: " << endl;

cout << "1. Bukidnon\n";

cout << "2. Camiguin\n";

cout << "3. Lanao del Norte\n";

cout << "4. Misamis Occidental\n";

cout << "5. Misamis Oriental\n";

cout << "Choose from 1-5 to find out more about the different provinces: ";

cin >> northernmind;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (northernmind == 1){

cout << "You have chosen Bukidnon" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Bukidnon: " << endl;

cout << "1. Malaybalay - Capital of Bukodnon\n";

cout << "2. Valencia\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays; ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the city of \n";

cout << "Information about city\n";

cout << "Here are all the barangays in : \n";

break;

}

case 2:{

cout << "You have chosen the city of \n";

cout << "Information about city\n";

cout << "Here are all the barangays in : \n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(BukidnonMuni)/sizeof(BukidnonMuni[0]);

char municipal;

cout << "Here are all the municipalities in Bukidnon: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << BukidnonMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Baungon.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Cabanglasan.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Damulog.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Dangcagan.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Don Carlos.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Impasugong.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Kadingilan.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Kalilangan.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Kibawe.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Kitaotao.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Lantapan.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Libona.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Malitbog.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Manolo Fortich.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Maramag.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Pangantucan.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Quezon.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of San Fernando.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Sumilao.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Talakag.\n";

break;

}

default: {

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (northernmind == 2){

cout << "You have chosen Camiguin" << endl;

cout << "Camiguin has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(CamiguinMuni)/sizeof(CamiguinMuni[0]);

char municipal;

cout << "Here are all the municipalities in Camiguin: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << CamiguinMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Catarman.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Guinsiliban.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Mahinog.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Mambajao.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Sagay.\n";

break;

}

default: {

cout << "CORRESPONDING NUMBER NOT FOUND";

break;

}

}

}

}

}

else if (northernmind == 3){

cout << "You have chosen Lanao del Norte" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Lanao del Norte: " << endl;

cout << "Iligan - Highly Urbanized City\n";

cout << "Would you like to find out more about Iligan and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(IliganBrgys)/sizeof(IliganBrgys[0]);

cout << "Mayor: Frederick W. Siao\n";

cout << "The City of Iligan is a 1st class highly urbanized city situated in Lanao del Norte. Iligan City is located in the northern coast of Mindanao facing Iligan Bay, bounded in the north by the province of Misamis Oriental. It is best known for the large number of waterfalls concentrated in the area, and is aptly called the City of Majestic Waterfalls.\n";

cout << "The city of Iligan's ZIP code is 9200.\n";

cout << "According to the 2020 census, its total population is 363,115.\n";

cout << "Here are all the barangays in :\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << IliganBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(LanaoDelNorteMuni)/sizeof(LanaoDelNorteMuni[0]);

char municipal;

cout << "Here are all the municipalities in Lanao del Norte: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << LanaoDelNorteMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Bacolod.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Baloi.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Baroy.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Kapatagan.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Kauswagan.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Kolambugan.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Lala.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Linamon.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Magsaysay.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Maigo.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Matungao.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Munai.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Nunungan.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Pantao Ragat.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Pantar.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Poona Piagapo.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Salvador.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Sapad.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Sultan Naga Dimaporo.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Tagoloan.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Tangcal.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Tubod - Capital of Lanao del Norte.\n";

break;

}

default: {

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (northernmind == 4){

cout << "You have chosen Misamis Occidental. " << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Misamis Occidental: " << endl;

cout << "1. Oroquieta - Capital of Misamis Occidental\n";

cout << "2. Ozamiz\n";

cout << "3. Tangub\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays; ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(OroquietaBrgys)/sizeof(OroquietaBrgys[0]);

cout << "You have chosen the city of Oroquieta.\n";

cout << "Mayor: Lemuel Meyrick M. Acosta\n";

cout << "The City of Oroquieta is a 4th class component city and the capital of Misamis Occidental. The city fronts on Iligan Bay (east) and the Bohol (Mindanao) Sea (northeast). It was a municipality until designated a city in 1969. Oroquieta is an important coconut-growing area and a major agricultural trading centre, and it also has a small port.\n";

cout << "The city of Oroquieta;s ZIP code is 7200.\n";

cout << "According to the 2020 census, its total population is 72,301.\n";

cout << "Here are all the barangays in Oroquieta: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << OroquietaBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(OzamizBrgys)/sizeof(OzamizBrgys[0]);

cout << "You have chosen the city of Ozamiz.\n";

cout << "Mayor: Henry F. Oaminal Jr. \n";

cout << "The City of Ozamiz is a 3rd class component city. The city lies on Panguil Bay, an extension of Iligan Bay of the Bohol (Mindanao) Sea. It was the site of Spanish fortifications dating from 1574, with one extant fort surviving from 1707. Incorporated in 1948, it is the largest population centre in the area.\n";

cout << "The city of Ozamiz's ZIP code is 7200.\n";

cout << "Here are all the barangays in Ozamiz: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << OzamizBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(TangubBrgys)/sizeof(TangubBrgys[0]);

cout << "You have chosen the city of Tangub.\n";

cout << "Mayor: Sabiniano Ben S. Canama\n";

cout << "The City of Tangub is a 4th class component city. Tangub is a coastal component city in the province of Misamis Occidental. The city has a land area of 162.78 square kilometers or 62.85 square miles which constitutes 8.11% of Misamis Occidental's total area. Dubbed as the Christmas Symbols Capital of the Philippines. Every year, the city will celebrate Christmas through the Tangub City Christmas Symbols Festival.\n";

cout << "The city of Tangub's ZIP code is 7214.\n";

cout << "According to the 2020 census, its total population is 68,389.\n";

cout << "Here are all the barangays in Ozamiz: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TangubBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(MisamisOccidentalMuni)/sizeof(MisamisOccidentalMuni[0]);

char municipal;

cout << "Here are all the municipalities in Misamis Occidental: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << MisamisOccidentalMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Aloran.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Baliangao.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Bonifacio.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Calamba.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Clarin.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Concepcion.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Don Victoriano Chiongbian.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Jimenez.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Lopes Jaena.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Panaon.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Plaridel.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Sapang Dalaga.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Sinacaban.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Tudela.\n";

break;

}

default: {

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (northernmind == 5){

cout << "You have chosen Misamis Oriental" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Misamis Oriental: " << endl;

cout << "1. Cagayan de Oro - Capital of Misamis Oriental and Regional Center of Northern Mindanao.\n";

cout << "2. El Salvador\n";

cout << "3. Gingoog\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays; ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the city of \n";

cout << "Information about city\n";

cout << "Here are all the barangays in : \n";

cout << "1. ";

break;

}

case 2:{

cout << "You have chosen the city of \n";

cout << "Information about city\n";

cout << "Here are all the barangays in : \n";

cout << "1. ";

break;

}

case 3:{

cout << "You have chosen the city of \n";

cout << "Information about city\n";

cout << "Here are all the barangays in : \n";

cout << "1. ";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(MisamisOrientalMuni)/sizeof(MisamisOrientalMuni[0]);

char municipal;

cout << "Here are all the municipalities in Misamis Oriental: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << MisamisOrientalMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Alubijid.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Balingasag.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Balingoan.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Binuangan.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Claveria.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Gitagum.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Initao.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Jasaan.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Kinoguitan.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Lagonglong.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Laguindingan.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Libertad.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Lugait.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Magsaysay.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Manticao.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Medina.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Naawan.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Opol.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Salay.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Sugbongcogon.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Tagoloan.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Talisayan.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Villanueva.\n";

break;

}

default: {

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

case 12: {

char prov;

char cmb;

cout << "REGION XI - Davao Region" << endl;

cout << "Davao Region is known as Mindanao's center for trade and investments. It is also famous for its rich mineral resources such as gold, copper, manganese, and nickel." << endl;

cout << "It has a total of 5,243,536 people as of 2020.\n";

cout << "Has 5 provinces, 6 cities, 43 municipalities, and 1,162 barangays.\n";

cout << "Would you like to find out about the different provinces in the Davao Region? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int davaoreg;

cout << "Here are all the provinces in the Davao Region: " << endl;

cout << "1. Davao de Oro\n";

cout << "2. Davao del Norte\n";

cout << "3. Davao del Sur\n";

cout << "4. Davao Occidental\n";

cout << "5. Davao Oriental\n";

cout << "Choose from 1-5 to find out more about the different provinces: ";

cin >> davaoreg;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (davaoreg == 1){

cout << "You have chosen Davao de Oro\n";

cout << "Davao de Oro has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Davao de Oro: " << endl;

cout << "1. Compostela\n";

cout << "2. Laak\n";

cout << "3. Mabini\n";

cout << "4. Maco\n";

cout << "5. Maragusan\n";

cout << "6. Mawab\n";

cout << "7. Monkayo\n";

cout << "8. Nabunturan - Capital of Davao de Oro\n";

cout << "9. Montevista\n";

cout << "10. New Bataan\n";

cout << "11. Pantukan\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Compostela.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Laak.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Mabini.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Maco.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Maragusan.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Mawab.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Monkayo.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Nabunturan - Capital of Davao de Oro.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Montevista.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of New Bataan.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Pantukan.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (davaoreg == 2){

cout << "You have chosen Davao del Norte\n";

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Davao del Norte: " << endl;

cout << "1. Panabo\n";

cout << "2. Samal\n";

cout << "3. Tagum - Capital of Davao del Norte\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays; ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1:{

int barangayCount = sizeof(PanaboBrgys)/sizeof(PanaboBrgys[0]);

cout << "You have chosen the city of Panabo.\n";

cout << "Mayor: Sabastian Z. Duterte\n";

cout << "Panabo is the second most populous city in Davao del Norte (after Tagum) and it is also part of Davao Metropolitan Area as it shares borders with Davao City. It has an area of 25,123 hectares (62,080 acres). The Panabo City Hall is located about 2.23 kilometers from its boundary with Davao City.\n";

cout << "The city of Panabo's zip code is 8105.\n";

cout << "According to the 2020 census, its total population is 209, 230.\n";

cout << "Here are all the barangays in Panabo:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << PanaboBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(SamalBrgys)/sizeof(SamalBrgys[0]);

cout << "You have chosen the city of Samal.\n";

cout << "Mayor: Al David T. Uy \n";

cout << "Samal is the only city in the country that encompasses two entire islands, hence its name the Island Garden City. While pristine beaches dot the island's shores, hills dominate the middle portions of the island. Talikud Island is located southwest of the main island.\n";

cout << "The city of Samal's zip code is 8119.\n";

cout << "According to the 2020 census, its total population is 116,711.";

cout << "Here are all the barangays in Samal:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SamalBrgys[i] << "\n";

}

break;

}

case 3:{

int barangayCount = sizeof(TagumBrgys)/sizeof(TagumBrgys[0]);

cout << "You have chosen the city of Tagum.\n";

cout << "Mayor: Rey T. Uy";

cout << "is the capital of the province of Davao del Norte. Tagum is known for many things, like its coconut and banana plantations, its festivals, and marching bands.\n";

cout << "The city of Tagum's zip code is 8100.\n";

cout << "According to the 2020 census, its total population is 296,202.\n";

cout << "Here are all the barangays in Tagum:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TagumBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Davao del Norte: " << endl;

cout << "1. Asuncion\n";

cout << "2. Braulio E. Dujali\n";

cout << "3. Carmen\n";

cout << "4. Kapalong\n";

cout << "5. New Corella\n";

cout << "6. San Isidro\n";

cout << "7. Santo Tomas\n";

cout << "8. Talaingod\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Asuncion.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Braulio E. Dujali.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Carmen.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Kapalong.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of New Corella.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of San Isidro.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Santo Tomas.\n";

break;

}

case 8:{

cout << "You have chosen the municipality of Talaingod.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

}

else if (davaoreg == 3){

cout << "You have chosen Davao del Sur\n";

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Davao del Sur: " << endl;

cout << "1. Davao City - Regional Center of Davao Region.\n";

cout << "2. Digos\n";

cout << "Would you like to find out more about the cities and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays; ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(DavaoCityBrgys)/sizeof(DavaoCityBrgys[0]);

cout << "You have chosen the city of Davao.\n";

cout << "Mayor: Sebastian Z. Duterte\n";

cout << "The City of Davao is a 1st class highly urbanized city situated in Davao del Sur. It is known for many things like the King City of the South, Crown Jewel of Mindanao, Durian Capital of the Philippines, and the Chocolate Capital of the Philippines.\n";

cout << "The City of Davao's ZIP code is 8000.\n";

cout << "According to the 2020 census, its total population is 1.7 million.\n";

cout << "Here are all the barangays in Davao City:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << DavaoCityBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(DigosCityBrgys)/sizeof(DigosCityBrgys[0]);

cout << "You have chosen the city of Digos.\n";

cout << "Mayor: Josef F. Cagas\n";

cout << "The City of Digos is a 1st class component city. Digos is a coastal component city in the province of Davao del Sur. It serves as the provincial capital. The city has a land area of 287.10 square kilometers or 110.85 square miles which constitutes 13.27% of Davao del Sur's total area.\n";

cout << "The city of Digos ZIP code is 8002.\n";

cout << "According to the 2020 census, its total population is 188,376.\n";

cout << "Here are all the barangays in Digos:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << DigosCityBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Davao del Sur: " << endl;

cout << "1. Bansalan\n";

cout << "2. Hagonoy\n";

cout << "3. Kiblawan\n";

cout << "4. Magsaysay\n";

cout << "5. Malalag\n";

cout << "6. Matanao\n";

cout << "7. Padada\n";

cout << "8. Santa Cruz\n";

cout << "9. Sulop\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Bansalan.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Hagonoy.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Kiblawan.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Magsaysay.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Malalag.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Matanao.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Padada.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Santa Cruz.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Sulop.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (davaoreg == 4){

cout << "You have chosen Davao Occidental. " << endl;

cout << "Davao Occidental has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Davao Occidental: " << endl;

cout << "1. Don Marcelino\n";

cout << "2. Jose Abad Santos\n";

cout << "3. Malita - Capital of Davao Occidental\n";

cout << "4. Santa Maria\n";

cout << "5. Sarangani\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Don Marcelino.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Jose Abad Santos.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Malita - Capital of Davao Occidental.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Santa Maria.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Sarangani.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (davaoreg == 5){

cout << "You have chosen Davao Oriental." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Davao Oriental: " << endl;

cout << "Mati - Capital of Davao Oriental\n";

cout << "Would you like to find out more about Mati and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(MatiCityBrgys)/sizeof(MatiCityBrgys[0]);

cout << "Mayor: Michelle Nakpil Rabat \n";

cout << "The City of Mati is a 5th class component city. Mati is surrounded by several beautiful, clear-blue beaches. Dahikan, which is known as Mati's surfing capital because of its huge, crystal-clear waves, attracts both domestic and foreign tourists on a daily basis. It also serves as a haven for the endangered pawikans (sea turtles).\n";

cout << "The city of Mati's ZIP code is 8200.\n";

cout << "According to the 2020 census, its total population is 147, 547.\n";

cout << "Here are all the barangays in Mati:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << MatiCityBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Davao Oriental: " << endl;

cout << "1. Baganga\n";

cout << "2. Banaybanay\n";

cout << "3. Boston\n";

cout << "4. Caraga\n";

cout << "5. Cateel\n";

cout << "6. Governor Generoso\n";

cout << "7. Lupon\n";

cout << "8. Manay\n";

cout << "9. San Isidro\n";

cout << "10. Tarragona\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Baganga.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Banaybanay.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Boston.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Caraga.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Cateel.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Governor Generoso.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Lupon.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Manay.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of San Isidro.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Tarragona.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

case 13: {

char prov;

char cmb;

cout << "REGION XII - SOCCSKSARGEN" << endl;

cout << "SOCCSKSARGEN stands for South Cotabato, Cotabato, Sultan Kudarat, Sarangani, and General Santos City. SOCCSKSARGEN is famous for their exports of fish, fruits, and vegetables exports. They are also known for their gifts and houseware products." << endl;

cout << "It has a population of 4,901,486 people as of 2020.\n";

cout << "Has 4 provinces, 5 cities, 45 municipalities, and 1,195 barangays.\n";

cout << "Would you like to find out about the different provinces in SOCCSKSARGEN? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int soccsk;

cout << "Here are all the provinces in SOCCSKSARGEN: " << endl;

cout << "1. Cotabato\n";

cout << "2. Sarangani\n";

cout << "3. South Cotabato\n";

cout << "4. Sultan Kudarat\n";

cout << "Choose from 1-4 to find out more about the different provinces: ";

cin >> soccsk;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (soccsk == 1){

cout << "You have chosen Cotabato." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Cotabato: " << endl;

cout << "1. Kidapawan\n";

cout << "2. General Santos - Highly Urbanized City\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the city of \n";

cout << "Information about city\n";

cout << "Here are all the barangays in : \n";

break;

}

case 2:{

cout << "You have chosen the city of \n";

cout << "Information about city\n";

cout << "Here are all the barangays in : \n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Cotabato: " << endl;

cout << "1. Alamada\n";

cout << "2. Aleosan\n";

cout << "3. Antipas\n";

cout << "4. Arakan\n";

cout << "5. Banisilan\n";

cout << "6. Carmen\n";

cout << "7. Kabacan\n";

cout << "8. Libungan\n";

cout << "9. Magpet\n";

cout << "10. Makilala\n";

cout << "11. Matalam\n";

cout << "12. Midsayap\n";

cout << "13. M'lang\n";

cout << "14. Pigcawayan\n";

cout << "15. Pikit\n";

cout << "16. President Roxas\n";

cout << "17. Tulunan\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Alamada.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Aleosan.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Antipas.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Arakan.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Banisilan.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Carmen.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Kabacan.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Libungan.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Magpet.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Makilala.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Matalam.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Midsayap.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of M'lang.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Pigcawayan.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Pikit.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of President Roxas.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Tulunan.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (soccsk == 2){

cout << "You have chosen Sarangani." << endl;

cout << "Sarangani has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Sarangani: " << endl;

cout << "1. Alabel - Capital of Sarangani\n";

cout << "1. Glan\n";

cout << "2. Kiamba\n";

cout << "3. Maasim\n";

cout << "4. Maitum\n";

cout << "5. Malapatan\n";

cout << "6. Malungon\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the municipality of Alabel.\n";

break;

}

case 2:{

cout << "You have chosen the municipality of Glan.\n";

break;

}

case 3:{

cout << "You have chosen the municipality of Kiamba.\n";

break;

}

case 4:{

cout << "You have chosen the municipality of Maasim.\n";

break;

}

case 5:{

cout << "You have chosen the municipality of Maitum.\n";

break;

}

case 6:{

cout << "You have chosen the municipality of Malapatan.\n";

break;

}

case 7:{

cout << "You have chosen the municipality of Malungon.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (soccsk == 3){

cout << "You have chosen South Cotabato." << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in South Cotabato: " << endl;

cout << "1. General Santos - Highly Urbanized City.\n";

cout << "2. Koronadal - Capital of South Cotabato and Regional Center of SOCCSKSARGEN\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays; ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(GeneralSantosBrgys)/sizeof(GeneralSantosBrgys[0]);

cout << "You have chosen the city of General Santos.\n";

cout << "Mayor: Pedro Busgano Acharon Jr.\n";

cout << "The City of General Santos is a 1st class highly urbanized city situated in South Cotabato. It is known as the Home of the Champions because boxing superstars Manny Pacquiao, Nonito Donaire, and Rolando Navarette resides here. It is also called as the Tuna Capital of the Philippines. \n";

cout << "The City of General Santos' ZIP code is 9500.\n";

cout << "According to the 2020 census, its total population is 687,315.\n";

cout << "Here are all the barangays in General Santos:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << GeneralSantosBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(KoronadalBrgys)/sizeof(KoronadalBrgys[0]);

cout << "You have chosen the city of Koronadal.\n";

cout << "Mayor: Eliordo U. Ogena\n";

cout << "The city of Koronadal or Marbel, is a 1st class component city and the capital of South Cotabato and the Regional Center of SOCCSKSARGEN. It is a rapidly growing city that is known for its modern shopping malls, natural beauty, and their cultural attractions like the Paraiso Verde Resort & Water Park. \n";

cout << "The City of Koronadal's ZIP code is 9506.\n";

cout << "According to the 2020 census, its total population is 195,398.\n";

cout << "Here are all the barangays in Koronadal:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << KoronadalBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in South Cotabato: " << endl;

cout << "1. Banga\n";

cout << "2. Lake Sebu\n";

cout << "3. Norala\n";

cout << "4. Polomolok\n";

cout << "5. Santo Nino\n";

cout << "6. Surallah\n";

cout << "7. Tampakan\n";

cout << "8. Tantangan\n";

cout << "9. T'Boli\n";

cout << "10. Tupi\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Banga.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Lake Sebu.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Norala.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Polomolok.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Santo Nino.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Surallah.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Tampakan.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Tantangan.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of T'Boli.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Tupi.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

}

else if (soccsk == 4){

cout << "You have chosen Sultan Kudarat." << endl;

cout << "Sultan Kudarat has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Sultan Kudarat: " << endl;

cout << "1. Bagumbayan\n";

cout << "2. Columbio\n";

cout << "3. Esperanza\n";

cout << "5. Isulan - Capital of Sultan Kudarat";

cout << "6. Kalamansig\n";

cout << "7. Lambayong\n";

cout << "8. Lebak\n";

cout << "9. Lutayan\n";

cout << "10. Palimbang\n";

cout << "11. President Quirino\n";

cout << "12. Senator Ninoy Aquino\n";

cout << "13. Tacurong\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Bagumbayan.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Columbio.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Esperanza.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Isulan - Capital of Sultan Kudarat.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Kalamansig.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Lambayong.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Lebak.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Lutayan.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Palimbang.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of President Quirino.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Senator Ninoy Aquino.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Tacurong.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.";

break;

}

}

}

}

}

}

break;

}

case 14: {

char prov;

char cmb;

cout << "REGION XIII - CARAGA" << endl;

cout << "Caraga means 'land of the brave and fierce people'. The region is known for its wood-based economy and mineral deposits of iron, gold, silver, nickel, chromite, manganese, and copper." << endl;

cout << "It has a population of 2,804,788 people as of 2020.\n";

cout << "Has 5 provinces, 6 cities, 67 municipalities, and 1,311 barangays.\n";

cout << "Would you like to find out about the different provinces in CARAGA? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int caraga;

cout << "Here are all the provinces in CARAGA: " << endl;

cout << "1. Agusan del Norte\n";

cout << "2. Agusan del Sur\n";

cout << "3. Dinagat Islands\n";

cout << "4. Surigao del Norte\n";

cout << "5. Surigao del Sur\n";

cout << "Choose from 1-5 to find out more about the different provinces: ";

cin >> caraga;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (caraga == 1){

cout << "You have chosen Agusan del Norte" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Agusan del Norte: " << endl;

cout << "1. Butuan - Regional Center of Caraga\n";

cout << "2. Cabadbaran - Capital of Agusan del Norte\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays; ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(ButuanBrgys)/sizeof(ButuanBrgys[0]);

cout << "You have chosen the city of Butuan.\n";

cout << "Mayor: Ronnice Vicente Lagnada\n";

cout << "The City of Butuan is a 1st class highly urbanized city situated in Agusan del Norte. Butuan city is known for their ancient boats named balangays. Butuan is also Ferdinand Magellan's landing site.\n";

cout << "The city of Butuan's ZIP code is 8600.\n";

cout << "According to the 2020 census, its total population is 372,910.\n";

cout << "Here are all the barangays in Butuan:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << ButuanBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(CabadbaranBrgys)/sizeof(CabadbaranBrgys[0]);

cout << "You have chosen the city of Cabadbaran.\n";

cout << "Mayor: Judy C. Amante\n";

cout << "The City of Cabadbaran is a 6th class component city and the capital of Agusan del Norte. It is mainly known for its preserved colonial period houses and its archaeological collections.\n";

cout << "The city of Cabadbaran's ZIP code is 8605.\n";

cout << "According to the 2020 census, its total population is 80,354.\n";

cout << "Here are all the barangays in Cabadbaran:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CabadbaranBrgys[i] << "\n";

}

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Agusan Del Norte : " << endl;

cout << "1. Buenavista\n";

cout << "2. Carmen\n";

cout << "3. Jabonga \n";

cout << "4. Kitcharao \n";

cout << "5. Las Nieves \n";

cout << "6. Magallanes \n";

cout << "7. Nasipit \n";

cout << "8. Remedios T. Romualdez \n";

cout << "9. Santiago \n";

cout << "10. Tubay \n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Buenavista.\n";

cout << "Mayor: Hon. Joselito T.\n";

cout << "The Municipality of Buenavista is a first-class municipality in the province of Agusan del Norte, Region XIII. It is a coastal municipality that has a total land area of 475.61 square kilometers that is subdivided into 25 barangays.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Carmen.\n";

cout << "Mayor: Ramon M. Calo\n";

cout << "Carmen is a coastal municipality in the province of Agusan del Norte. The municipality has a land area of 214.44 square kilometers or 82.80 square miles which constitutes 8.21 percent of Agusan del Norte's total area.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Jabonga.\n";

cout << "Mayor: Napoleon M. Montero\n";

cout << "Info: The Municipality Jabonga is a third-class municipality in the province of Agusan del Norte. It was established in 1853 by a group of missionaries sent by Fr. Saturnino Urios.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Kitcharao.\n";

cout << "Mayor: Jenry E. Montante \n";

cout << "Kitcharao is the northernmost town of the province and lies on the boundary line between Surigao del Norte and Agusan del Norte. It has a land area of 225 square kilometers and owes its abundant fresh-water fish supply to the famous Lake Mainit, a top tourist attraction in the area.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Las Nieves.\n";

cout << "Mayor: Avelina S. Rosales \n";

cout << "Las Nieves, (Spanish for 'The Snows'), officially the Municipality of Las Nieves is a 2nd class municipality in the province of Agusan del Norte, Philippines.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Magallanes.\n";

cout << "Mayor: Cesar C. Cumba Jr. \n";

cout << "Magallanes is a coastal municipality in the province of Agusan del Norte. The municipality has a land area of 44.31 square kilometers or 17.11 square miles which constitutes 1.70percent of Agusan del Norte's total area.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Nasipit.\n";

cout << "Mayor: Roscoe Democrito B. Plaza \n";

cout << "Nasipit is a coastal municipality in the province of Agusan del Norte. The municipality has a land area of 144.40 square kilometers or 55.75 square miles which constitutes 5.53percent of Agusan del Norte's total area.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Remedios T. Romualdez.\n";

cout << "Mayor: Richard P. Daquipil\n";

cout << "The Municipality of RTR, Agusan del Norte with 8 component barangays, is a rice producing town, it abounds in forest, agriculture quarry materials and mineral resources ie. High grade manganese ore, gold and others its population of more than 18,000 and has a total land area of more or less 8,700 hectares.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Santiago.\n";

cout << "Mayor: Franklin D. Lim\n";

cout << "Santiago is a landlocked municipality in the coastal province of Agusan del Norte. The municipality has a land area of 275.61 square kilometers or 106.41 square miles which constitutes 10.55percent of Agusan del Norte's total area.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Tubay.\n";

cout << "Mayor: Jimmy Luison Beray\n";

cout << "Tubay is a coastal municipality in the province of Agusan del Norte. The municipality has a land area of 63.05 square kilometers or 24.34 square miles which constitutes 2.41percent of Agusan del Norte's total area.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (caraga == 2){

cout << "You have chosen Agusan del Sur" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Agusan del Sur: " << endl;

cout << "Bayugan is the only city in Agusan del Sur.\n";

cout << "Would you like to find out more about Bayugan and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(BayuganBrgys)/sizeof(BayuganBrgys[0]);

cout << "Mayor: Kirk A. Asis\n";

cout << "The City of Bayugan is a 1st class component city. Bayugan is renowned as the cut-flower capital” of the province, owing to its thriving cut-flower industry.\n";

cout << "The city of Bayugan's ZIP code is 8502.\n";

cout << "According to the 2020 census, its total population is 109,499.\n";

cout << "Here are all the barangays in Bayugan:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BayuganBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Agusan Del Sur: " << endl;

cout << "1. Bunawan \n";

cout << "2. Esperenza \n";

cout << "3. La Paz \n";

cout << "4. Loreto \n";

cout << "5. Properidad - Capital of Agusan Del Sur \n";

cout << "6. Rosario \n";

cout << "7. San Francisco \n";

cout << "8. San Luis \n";

cout << "9. Santa Josefa \n";

cout << "10. Sibagat \n";

cout << "11. Talacogon \n";

cout << "12. Trento \n";

cout << "13 . Veruela \n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Bunawan.\n";

cout << "Mayor: Sylvia B. Elorde \n";

cout << "Bunawan is a municipality in the landlocked province of Agusan del Sur. The municipality has a land area of 512.16 square kilometers or 197.75 square miles which constitutes 5.13percent of Agusan del Sur's total area\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Esperenza.\n";

cout << "Mayor: Leonida P. Manpatilan\n";

cout << "Esperanza is a municipality in the landlocked province of Agusan del Sur. The municipality has a land area of 1,355.48 square kilometers or 523.35 square miles which constitutes 13.57percent of Agusan del Sur's total area.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of La Paz.\n";

cout << "Mayor: Michael D.S. Lim\n";

cout << "The Municipality of La Paz, or La Paz, is a first-class municipality in the province of Agusan del Sur, Caraga region. It is a landlocked municipality that is part of the Agusan River Basin. La Paz has a total land area of 1,481.12 square kilometers and is composed of 15 barangays.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Loreto.\n";

cout << "Mayor: Lorife M. Otaza\n";

cout << "Loreto is a river town situated south-west of Agusan del Sur. It is bounded on the north by La Paz, north-east by Bunawan, and southeast by Veruela. \n";

break;

}

case 5: {

cout << "You have chosen the municipality of Properidad.\n";

cout << "Mayor: Frederick Mark P. Mellana\n";

cout << "Prosperidad is a municipality in the landlocked province of Agusan del Sur. It serves as the provincial capital. The municipality has a land area of 505.15 square kilometers or 195.04 square miles which constitutes 5.06percent of Agusan del Sur's total area.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Rosario.\n";

cout << "Mayor: Jose T. Cuyos Sr. \n";

cout << "Rosario is a municipality in the landlocked province of Agusan del Sur. The municipality has a land area of 385.05 square kilometers or 148.67 square miles which constitutes 3.85percent of Agusan del Sur's total area.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of San Francisco.\n";

cout << "Mayor: Grace Carmel D. Paredes-Bravo\n";

cout << "San Francisco is known for the gigantic Toog Tree of Alegria, which is the most sacred tribal tree for many of the Indigenous peoples of San Francisco. The town is also popular for its Irosin stone crafts, which has been the cottage industry of many Indigenous families in the area for hundreds of years. \n";

break;

}

case 8: {

cout << "You have chosen the municipality of San Luis.\n";

cout << "Mayor: Ronaldo Y. Corvera\n";

cout << "San Luis was created into a municipality on June 15, 1968, when the barrios of San Luis, Santa Inez, Nuevo Trabajo, Cualision and Baylo were separated from the municipality of Esperanza and constituted into the new town, through Republic Act 5262\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Santa Josefa.\n";

cout << "Mayor: Symond O. Cagulat \n";

cout << "it is the province's most southerly settlement. According to the Philippine Statistics Authority, the municipality has a land area of 341.8 square kilometers (132.0 sq mi) constituting 3.42percent of the 9,989.52-square-kilometre- (3,856.98 sq mi) total area of Agusan del Sur.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Sibagat.\n";

cout << "Mayor: Thelma Gonzaga Lamanilao\n";

cout << "Sibagat is a municipality in the landlocked province of Agusan del Sur. The municipality has a land area of 567.82 square kilometers or 219.24 square miles which constitutes 5.68percent of Agusan del Sur's total area.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Talacogon.\n";

cout << "Mayor: Pauline Marie R. Masendo\n";

cout << "Talacogon is a municipality in the landlocked province of Agusan del Sur. The municipality has a land area of 405.25 square kilometers or 156.47 square miles which constitutes 4.06percent of Agusan del Sur's total area.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Trento.\n";

cout << "Mayor: William E. Calvez\n";

cout << "On June 15, 1968, Trento was established as a distinct municipality through Republic Act No. 5283. The town was named after the Council of Trent. The municipality being referred to has a land area of 555.70 square kilometers or 214.56 square miles, accounting for 5.56percent of Agusan del Sur's total area.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Veruela.\n";

cout << "Mayor: Myrna S. Mondejar \n";

cout << "Veruela is considered the oldest town of upper Agusan del Sur. It is believed the name ‘Veruela’ derives from the word ‘virus’, as the area suffered from smallpox and cholera in the late 18th century when Spanish missionaries encountered the indigenous Manobo tribes.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

}

else if (caraga == 3){

cout << "You have chosen Dinagat Islands" << endl;

cout << "Dinagat Islands has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Dinagat Islands: " << endl;

cout << "1. Basilisa \n";

cout << "2. Cagdianao \n";

cout << "3. Dinagat \n";

cout << "4. Libjo \n";

cout << "5. Loreto \n";

cout << "6. San Jose - Capital of Dinagat Islands\n";

cout << "7. Tubajon \n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Basilisa.\n";

cout << "Mayor: Ozzy Reuben M. Ecleo \n";

cout << "Basilisa, formerly known as Rizal, is a coastal municipality in the island province of Dinagat Islands. The municipality has a land area of 102.46 square kilometers or 39.56 square miles which constitutes 12.53percent of Dinagat Islands's total area.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Cagdianao.\n";

cout << "Mayor: Marc Adelson D. Longos \n";

cout << "Cagdianao is a coastal municipality in the island province of Dinagat Islands. The municipality has a land area of 196.57 square kilometers or 75.90 square miles which constitutes 24.05percent of Dinagat Islands's total area.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Dinagat.\n";

cout << "Mayor: Simplicio S. Leyran Jr.\n";

cout << "A 5th class municipality in the province of Dinagat Islands, Philippines. The municipality is generally hilly with towering mountainous in eastern side part and islands outlying in the western part.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Libjo.\n";

cout << "Mayor: Melody L. Compasivo\n";

cout << "Libjo, formerly known as Albor, is a coastal municipality in the island province of Dinagat Islands. The municipality has a land area of 180.57 square kilometers or 69.72 square miles which constitutes 22.09percent of Dinagat Islands's total area.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Loreto.\n";

cout << "Mayor: Doandro Bill A. Ladaga\n";

cout << "Loreto is a coastal municipality in the island province of Dinagat Islands. The municipality has a land area of 155.82 square kilometers or 60.16 square miles which constitutes 19.06percent of Dinagat Islands’ total area.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of San Jose.\n";

cout << "Mayor: Yngwie Hero B. Ecleo \n";

cout << "San Jose is a coastal municipality in the island province of Dinagat Islands. It serves as the provincial capital. The municipality has a land area of 34.31 square kilometers or 13.25 square miles which constitutes 4.20percent of Dinagat Islands's total area.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Tubajon.\n";

cout << "Mayor: Simplicia P. Pedrablanca \n";

cout << "Tubajon is a coastal municipality in the island province of Dinagat Islands. The municipality has a land area of 126.38 square kilometers or 48.80 square miles which constitutes 15.46percent of Dinagat Islands's total area.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (caraga == 4){

cout << "You have chosen Surigao del Norte" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Surigao del Norte: " << endl;

cout << "Surigao City - Capital of Surigao del Norte\n";

cout << "Would you like to find out more about Surigao City and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(SurigaoCityBrgys)/sizeof(SurigaoCityBrgys[0]);

cout << "Mayor: Pablo Yves L. Dumiao II\n";

cout << "The City of Surigao is a 1st class component city and the capital of Surigao del Norte. Surigao City is known as the City of Island Adventures because of the 17 panoramic islands. It is also one of the oldest port towns in Mindanao.\n";

cout << "The city of Surigao's ZIP code is 8400.\n";

cout << "According to the 2020 census, its total population is 171,107.\n";

cout << "Here are all the barangays in Surigao City:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << SurigaoCityBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(SurigaoNorteMuni)/sizeof(SurigaoNorteMuni[0]);

char municipal;

cout << "Here are all the municipalities in Surigao Del Norte: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << SurigaoNorteMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Alegria.\n";

cout << "Mayor: Rene G. Esma\n";

cout << "A landlocked municipality in the coastal province of Surigao del Norte. The municipality has a land area of 65.28 square kilometers or 25.20 square miles which constitutes 3.34percent of Surigao del Norte's total area.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Bacuag.\n";

cout << "Mayor: Felecismo C. Cebedo\n";

cout << "Bacuag is a coastal municipality in the province of Surigao del Norte. The municipality has a land area of 95.85 square kilometers or 37.01 square miles which constitutes 4.91percent of Surigao del Norte's total area. Its population as determined by the 2020 Census was 14,881.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Burgos.\n";

cout << "Mayor: Emmanuel N. Arcena\n";

cout << "Burgos lies on the western part of Siargao Island. It has a present population of 3,078 (1986) with the area of 1,860 hectares. It chief agricultural product is copra. People however, engaged in fishing, since its sea coast is best suited for the fishing industry.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Claver.\n";

cout << "Mayor: Georgia D. Gokiangkee\n";

cout << "The town of Claver was once a negrito place of abode called Tayaga. It was then renamed Claver. Executive Order No. 126 re-converted Claver into a municipality in 1959.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Dapa.\n";

cout << "Mayor: Elizabeth Matugas\n";

cout << "The municipality of Dapa lies south of Siargao Island. It is 36 nautical miles east of Surigao City. A few nautical miles from the town is the famous Philippine Deep. The early village along its sea coast are the barangays of Cambas-ac, Union and Dolores.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Del Carmen.\n";

cout << "Mayor: Alfredo Matugas Coro II\n";

cout << "Numancia, now Del Carmen was founded in the year 1600, almost a century after Magellan discovered the Philippines on March 16, 1621. The Patron said is the Lady of Carmen and is celebrated every 16th of July. \n";

break;

}

case 7: {

cout << "You have chosen the municipality of General Luna.\n";

cout << "Mayor: Sol F. Matugas\n";

cout << "General Luna is situated at the southern side of Siargao Island. It is bounded on the North by the Municipality of Pilar, on the South by the small islands of Daku and La Januza on the West by the Municipality of Dapa and on the East by the Philippine Sea. It is located within the Protected Area known as Siargao Islands Protected Landscapes and Seascapes (SIPLAS) under Republic Act 7586 or known as the NIPAS Act.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Gigaquit.\n";

cout << "Mayor: Chandru Bonite\n";

cout << "Gigaquit is a coastal municipality in the province of Surigao del Norte. The municipality has a land area of 138.11 square kilometers or 53.32 square miles which constitutes 7.07percent of Surigao del Norte's total area.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Mainit.\n";

cout << "Mayor: Crisanta O, Mondano\n";

cout << "Mainit is a fourth class municipality in the province of Surigao del Norte, Philippines. It is situated on the north shore of Lake Mainit in the northeastern part of Mindanao. Mainit got its name from the hot sulfuric spring which flows to the river the ‘Mapaso Hot Spring’. Mapaso and Mainit literally mean ‘hot’. \n";

break;

}

case 10: {

cout << "You have chosen the municipality of Malimono.\n";

cout << "Mayor: Wallace R. Sinaca \n";

cout << "Malimono is a coastal municipality in the province of Surigao del Norte. The municipality has a land area of 80.88 square kilometers or 31.23 square miles which constitutes 4.14percent of Surigao del Norte's total area.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Pilar.\n";

cout << "Mayor: Maria Liza G. Resurreccion\n";

cout << "The municipality of Alegria lies on the Eastern side of Siargao Island. The largest island of the province of Surigao del Norte, it is bounded in the East by the Pacific Ocean, approximately 200 nautical miles from the famous Philippine Deep. On the Southeastern side is the Municipality of General Luna, on the Southern portion is the Municipality of Dapa, on the Western portion is the Municipality of Del Carmen and finally on the Northern side is the Municipality of San Isidro. \n";

break;

}

case 12: {

cout << "You have chosen the municipality of Placer.\n";

cout << "Mayor: Jovymarie C. Villazon\n";

cout << "Placer is a coastal municipality in the province of Surigao del Norte. The municipality has a land area of 61.29 square kilometers or 23.66 square miles which constitutes 3.14percent of Surigao del Norte's total area.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of San Benito.\n";

cout << "Mayor: Ma. Gina S, Menil\n";

cout << "San Benito, a former barangay of Numancia (Del Carmen), lies north of Surigao City, around 45 nautical miles. It was created as a municipality by virtue of Republic Act No. 6396 on September 17, 1971. It is a coastal town with a population of 4,528 (1986). Its main products are copra, fish and other agricultural crops like cassava, camote and gabi.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of San Francisco.\n";

cout << "Mayor: Val P. Pinat\n";

cout << "Anao-aon was a municipio in the early part of the Spanish regime. It was reverted to a barrio after the Spanish-American War. But on May 24, 1957 by virtue of a Presidential Proclamation it was restored to its original status as a sixth class municipality. Thru House Bill No. 1768, approved May 20, 1971, by the House of the Senate, Anao-aon was changed into San Francisco in honor of the Patron Saint, Saint Francis Xavier, from then on the town progressed. \n";

break;

}

case 15: {

cout << "You have chosen the municipality of San Isidro.\n";

cout << "Mayor: Lamberto E. Domi Os, Jr.\n";

cout << "San Isidro was a part of the Municipality of Numancia before it became a separate political subdivision on October 9, 1959 through Executive Order No. 359. The place was not linked with a road before to its mother town where only few succeeded in getting a secondary education due to difficulties of travel. \n";

break;

}

case 16: {

cout << "You have chosen the municipality of Santa Monica.\n";

cout << "Mayor: Fernado N. Dolar\n";

cout << "Monica comprises 11 barangays has a total land area of 39.19 square kilometres and geographically located between latitude 126°00' to 126°04' longitude 10°02' to 10°09'. It has a moderate climate the whole year round except in the month of November to January where there is sometime severe Northeastern Monsoon wind.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Sison.\n";

cout << "Mayor: Karissa R. Fetalvero\n";

cout << "The town of Sison is bisected by the National Highway . It is composed of rolling hills, medium-sized plains and valleys, abundant crystal-clear mountain springs, streams, brooks, rivulets, waterfalls, small lagoons, which characteristically are desirable factors for agricultural, industrial, commercial and tourism.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Socorro.\n";

cout << "Mayor: Riza Rafonselle T. Timcang \n";

cout << "The Municipality of Socorro, which comprises the whole island of Bucas Grande, province of Surigao del Norte, Caraga Region is situated at latitude 9º 33’ 49’ – 9º 47’ 00’ and longitude 125º 58’ – 126º 04’ 30’. It is 60 kms southeast of Surigao City. It faces the Pacific Ocean to the east (direct east towards Saipan), and the red mountain (Iron Mountain) of Mindanao in the west. In the north. It is bounded by the Municipality of Dapa (Siargao Island), and in the south by the Carrascal Cantilan peninsula and sea water.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Tagana-an.\n";

cout << "Mayor: Cesar B. Diaz Jr. \n";

cout << "Tagana-an is a coastal – estuarine town located at the eastern portion in the mainland of the Province of Surigao del Norte. It shares common boundaries with Surigao City, Sison and Placer in the mainland, Bucas Grande and Siargao islands off the seawaters of Hinatuan Passage.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Tubod.\n";

cout << "Mayor: Richelle B. Romarate\n";

cout << "Tubod is a landlocked municipality in the coastal province of Surigao del Norte. The municipality has a land area of 45.34 square kilometers or 17.51 square miles which constitutes 2.32percent of Surigao del Norte's total area.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (caraga == 5){

cout << "You have chosen Surigao del Sur" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Surigao del Sur: " << endl;

cout << "1. Bislig\n";

cout << "2. Tandag - Capital of Surigao del Sur\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays; ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch(barangays){

case 1:{

int barangayCount = sizeof(BisligBrgys)/sizeof(BisligBrgys[0]);

cout << "You have chosen the city of Bislig\n";

cout << "Mayor: Florencio C. Garay\n";

cout << "The City of Bislig is a 3rd class component city. The city of Bislig is known for its ecotourism. it is also home to the Little Niagara Falls of the Philippines which is the Tinuy-an Falls\n";

cout << "The city of Bistig's ZIP code Is 8311.\n";

cout << "According to the 2020 census, its total population is 99,290.\n";

cout << "Here are all the barangays in Bislig: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BisligBrgys[i] << "\n";

}

break;

}

case 2:{

int barangayCount = sizeof(TandagBrgys)/sizeof(TandagBrgys[0]);

cout << "You have chosen the city of Tandag.\n";

cout << "Mayor: Roxanne C. Pimentel\n";

cout << "The City of Tandag is a 3rd class component city. As the center of faith and capital town, Tandag was fortified with cottas which were erected sometime in the 18th century.\n";

cout << "The city of Tandag's ZIP code is 8300.\n";

cout << "According to the 2020 census, its total population is 62,669.\n";

cout << "Here are all the barangays in Tandag: \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TandagBrgys[i] << "\n";

}

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(SurigaoSurMuni)/sizeof(SurigaoSurMuni[0]);

char municipal;

cout << "Here are all the municipalities in Surigao Del Sur: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << SurigaoSurMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Barobo.\n";

cout << "Mayor: Joey S. Pama\n";

cout << "Barobo is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 242.50 square kilometers or 93.63 square miles which constitutes 4.92percent of Surigao del Sur's total area.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Bayabas.\n";

cout << "Mayor: Apolonio B. Lozada\n";

cout << "Bayabas is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 117.84 square kilometers or 45.50 square miles which constitutes 2.39percent of Surigao del Sur's total area.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Cagwait.\n";

cout << "Mayor: Glenn G. Batiancila \n";

cout << "Cagwait is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 214.10 square kilometers or 82.66 square miles which constitutes 4.34percent of Surigao del Sur's total area\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Cantilan.\n";

cout << "Mayor: Philip A, Pichay\n";

cout << "Cantilan is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 240.10 square kilometers or 92.70 square miles which constitutes 4.87percent of Surigao del Sur's total area.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Carmen.\n";

cout << "Mayor: Jane V. Plaza \n";

cout << "Carmen is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 160.01 square kilometers or 61.78 square miles which constitutes 3.24percent of Surigao del Sur's total area.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Carrascal.\n";

cout << "Mayor: Vicente H. Pimentel III\n";

cout << "Carrascal is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 265.80 square kilometers or 102.63 square miles which constitutes 5.39percent of Surigao del Sur's total are\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Cortes.\n";

cout << "Mayor: Josie M. Bonifacio \n";

cout << "Cortes is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 127.08 square kilometers or 49.07 square miles which constitutes 2.58percent of Surigao del Sur's total area\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Hinatuan.\n";

cout << "Mayor: Shem G. Garay\n";

cout << "Hinatuan is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 299.10 square kilometers or 115.48 square miles which constitutes 6.06percent of Surigao del Sur's total area.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Lanuza.\n";

cout << "Mayor: Marvin T. Azarcon\n";

cout << "Lanuza is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 290.60 square kilometers or 112.20 square miles which constitutes 5.89percent of Surigao del Sur's total area.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Lianga.\n";

cout << "Mayor: Novelita M. Sarmen\n";

cout << "Lianga is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 161.12 square kilometers or 62.21 square miles which constitutes 3.27percent of Surigao del Sur's total area.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Lingig.\n";

cout << "Mayor: Elmer P. Evangelo\n";

cout << "Lingig is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 305.17 square kilometers or 117.83 square miles which constitutes 6.19percent of Surigao del Sur's total area\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Madrid.\n";

cout << "Mayor: Jaun Paolo L. Lopez\n";

cout << "Madrid is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 141.20 square kilometers or 54.52 square miles which constitutes 2.86percent of Surigao del Sur's total area. \n";

break;

}

case 13: {

cout << "You have chosen the municipality of Marihatag.\n";

cout << "Mayor: Justin Marc. L Pelenio\n";

cout << "Marihatag is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 312.50 square kilometers or 120.66 square miles which constitutes 6.34percent of Surigao del Sur's total area\n";

break;

}

case 14: {

cout << "You have chosen the municipality of San Agustin.\n";

cout << "Mayor: Nicolas O. Alameda\n";

cout << "San Agustin is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 277.28 square kilometers or 107.06 square miles which constitutes 5.62percent of Surigao del Sur's total area.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of San Miguel.\n";

cout << "Mayor: Michael T. Corilla\n";

cout << "San Miguel is a landlocked municipality in the coastal province of Surigao del Sur. The municipality has a land area of 558.00 square kilometers or 215.45 square miles which constitutes 11.31percent of Surigao del Sur's total area.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Tagbina.\n";

cout << "Mayor: Glaiza Jane P. Lanete\n";

cout << "Tagbina is a landlocked municipality in the coastal province of Surigao del Sur. The municipality has a land area of 343.49 square kilometers or 132.62 square miles which constitutes 6.96percent of Surigao del Sur's total area.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Tago.\n";

cout << "Mayor: Betty E. Pimentel\n";

cout << "Tago is a coastal municipality in the province of Surigao del Sur. The municipality has a land area of 253.28 square kilometers or 97.79 square miles which constitutes 5.13percent of Surigao del Sur's total area. \n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

case 15: {

char prov;

char cmb;

cout << "NCR - NATIONAL CAPITAL REGION" << endl;

cout << "The National Capital Region (NCR), also known as Metropolitan Manila, is the capital region of the Philippines. It is located in the southwestern portion of Luzon, directly below Central Luzon." << endl;

cout << "It has a population of 13,484,462 people as of 2020.\n";

cout << "Has 16 cities, 1 municipalities, 1,710 barangays.\n";

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in NCR: " << endl;

cout << "1. Caloocan\n";

cout << "2. Las Pinas\n";

cout << "3. Makati\n";

cout << "4. Malabon\n";

cout << "5. Mandaluyong\n";

cout << "6. Manila - Capital of NCR and Regional Center\n";

cout << "7. Marikina\n";

cout << "8. Muntinlupa\n";

cout << "9. Navotas\n";

cout << "10. Paranaque\n";

cout << "11. Pasay\n";

cout << "12. Pasig\n";

cout << "13. Quezon City\n";

cout << "14. San Juan\n";

cout << "15. Taguig\n";

cout << "16. Valenzuela\n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

int barangayCount = sizeof(CaloocanBrgys)/sizeof(CaloocanBrgys[0]);

cout << "You have chosen the city of Caloocan \n";

cout << "Mayor: Dale Gonzalo Rigor Malapitan \n";

cout << "Caloocan, city on Dagatdagatan Lagoon (Manila Bay), central Luzon, Philippines, adjacentto northern Manila. Founded in 1762, it became a municipality in 1815. Caloocan suffered much damage during World War II. Now part of Greater Manila, it is a growing center of industrialization as well as a resident suburb. Processed foods, textiles, and engineering prodcuts are its main industreis.\n";

cout << "The city of Caloocan's zip code is 1123 \n";

cout << "According to 2020 census, its total population is 606,293 \n";

cout << "Here are all the barangays in Caloocan : \n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << CaloocanBrgys[i] << "\n";

}

break;

}

case 2:{

cout << "You have chosen the city of Las Pinas \n";

cout << "Mayor: Imelda T. Aguilar \n";

cout << "Known nationwide for its bamboo organ, salt beds, jeepney factory, and the Las Pinas-Paranaque Wetlands, the city is distinguished as one of the Metro Manila's fastest-growing communities. Although it became a city only in 1997, Las Pinas was one of the first settlements at the outskirts of Manila. \n";

cout << "The city of Las Pinas zip code is 1700 \n";

cout << "According to 2020 census, its total population is 606,293 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 3:{

cout << "You have chosen the city of Makati \n";

cout << "Mayor: Abigail Binay \n";

cout << "A southern residential, financial, and industrial suburb of Manila, it has a large, modern manufacturing complex along its segment of the regional belt highway, where a number of national and foreign firms are located. Makati lies in the heart of the Metro Manila. The city is known for its upscale shopping malls with high fashion brands, restaurants and hotels, and is home to many affluent Filipinos. Makati is also a financial, commercial and economic center. \n";

cout << "The city of Makati's zip code is 1017 \n";

cout << "According to 2020 census, its total population is 629,616 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 4:{

cout << "You have chosen the city of Malabon \n";

cout << "Mayor: Jeannie Sandoval \n";

cout << "Malabon City is a 1st-class highly-urbanized city in the Philippines. It is part of the National Capital Region. Is known for its wide variety of seafoods and the well-known noodle, the pancit malabon.\n";

cout << "The city of Malabon's zip code is 1409 \n";

cout << "According to 2020 census, its total population is 380,522 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 5:{

cout << "You have chosen the city of Mandaluyong \n";

cout << "Mayor: Benjamin Santos Abalos Jr. \n";

cout << "It became a city in 1994 and in the early 2000s, Mandaluyong was proclaimed the 'Millenium City' by the city's leaders, noting its thriving local economy. Mandaluyong is also popularly known as 'New Tiger' of Metro Manila. Nowadays, Mandaluyong serves as an example of urban growth and cultural vibrancy.\n";

cout << "The city of Mandaluyong's zip code is 1550 \n";

cout << "According to 2020 census, its total population is 425,758 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 6:{

cout << "You have chosen the city of Manila \n";

cout << "Mayor: Honey Lacuna \n";

cout << "Manila serves as the center of culture, economy, education, and government in the Philippines. It is the most populous region of the country and one of the most densely populated in the world. It is also the main gateway for international travelers going to the Philippines by flight. Is best known for its remnants of Spanish colonial history, a showcase of Filipino art and culture, as well as a variety of classic yet delicious Filipino food. \n";

cout << "The city of Manila's zip code is 1000 \n";

cout << "According to 2020 census, its total population is 1,846,513 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 7:{

cout << "You have chosen the city of Marikina \n";

cout << "Mayor: Marcelino Teodoro \n";

cout << "The City of Marikina is considered one of the wealthiest local government units in the Philippines. Marikina is known as the Shoe Capital of the Philippines owing to its famous shoe industry. It is the biggest manufacturer of shoes in the Philippines, producing almost 70 percent of shoes made in the country.\n";

cout << "The city of Marikina's zip code is 1800 \n";

cout << "According to 2020 census, its total population is 456,059\n";

cout << "Here are all the barangays in : \n";

break;

}

case 8:{

cout << "You have chosen the city of Muntinlupa \n";

cout << "Mayor: Rozzano Rufino B. Diazon \n";

cout << "Muntinlupa is a landlocked highly urbanized city in the National Capital Region. Muntinlupa, among other things, is known for the New Bilibid Prison (NBP). The rich history and cultural heritage of the NBP make the local history of the city more interesting and insightful. \n";

cout << "The city of Muntinlupa's zip code is 1770 \n";

cout << "According to 2020 census, its total population is 543,445\n";

cout << "Here are all the barangays in : \n";

break;

}

case 9:{

cout << "You have chosen the city of Navotas \n";

cout << "Mayor: John Reynald Marcelo \n";

cout << "Navotas is geographically located on the extreme northwestern shore of Metro Manila and is politically subdivided into two districts. It is known as the Commercial Fishing Hub of the Philippines, for the city has the third largest fish port in Asia and the largest in Southeast Asia. \n";

cout << "The city of Navotas zip code is 1485 \n";

cout << "According to 2020 census, its total population is 247,543 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 10:{

cout << "You have chosen the city of Paranaque\n";

cout << "Mayor: Eric Olvarez \n";

cout << "Paranaque in 1975 becoming a part of the National Capital region, Paranaque is now classified as a first class highly urbanized city in Metro Manila. Paranaque has long been noted for intricate hand embroidery, which has continued as a household industry.\n";

cout << "The city of Paranaque's zip code is 1710 \n";

cout << "According to 2020 census, its total population is 689,992 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 11:{

cout << "You have chosen the city of Pasay \n";

cout << "Mayor: Emi Rubiano \n";

cout << "Pasay, city, central Luzon, Philippines, situated on the eastern shore of Manila Bay. A major residential suburb of Manila (immediately north), it is well known for the nightclubs that line the waterfront along Roxas (formerly Dewey) Boulevard. Pasay is densely populated and highly commercialized.\n";

cout << "The city of Pasay's zip code is 1300 \n";

cout << "According to 2020 census, its total population is 440,656 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 12:{

cout << "You have chosen the city of Pasig \n";

cout << "Mayor: Vico Sotto \n";

cout << "Pasig city is approximately 12 kilometers east of Manila, on the southern tip of Pasig River. It is bordered by Quezon City and Marikina City on the North. Known as 'green city' for its environment-friendly initiatives led by its local government.\n";

cout << "The city of Pasig's zip code is 1600 \n";

cout << "According to 2020 census, its total population is 803,159 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 13:{

cout << "You have chosen the city of Quezon \n";

cout << "Mayor: Joy Belmonte-Alimurung \n";

cout << "Quezon city is the most populated and wealthiest city of the Philippines. It was also the country's capital between 1948 and 1976. The city is part of Metropolitan Manila. It is an important governmental, economic and educational center and has one of the most consistent sustainability track records in the Philippines. Quezon City is known for its culture, entertainment industry and media, and is aptly called the City of Stars.\n";

cout << "The city of Quezon's zip code is 1015 \n";

cout << "According to 2020 census, its total population is 2,960,992 \n";

break;

}

case 14:{

cout << "You have chosen the city of San Juan \n";

cout << "Mayor: Francis Zamora \n";

cout << "San Juan is the least-extensive city in the Philippines with a total area of just 595 hectares (2.30 sq mi). San Juan is bounded by Quezon City on the north and east, Mandaluyong on the south, and the City of Manila in the west. The city is known historically for the site of the first battle of the Katipunan, the organization which led the 1896 Philippine Revolution against the Spanish Empire. Notable landmarks today such as Pinaglabanan Shrine and heritage homes are located in the city. \n";

cout << "The city of San Juan's zip code is 1500 \n";

cout << "According to 2020 census, its total population is 126,347 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 15:{

cout << "You have chosen the city of Taguig \n";

cout << "Mayor: Lani Cayetano \n";

cout << "Taguig is an important center for the country's international diplomacy, hosting several embassies. The city also home to the headquarters of several major multinational corporations. Taguig contains the Bonifacio Global City (popularly known simply as BGC), Metro Manila's second most important business district and a major tourism, shopping, dining and entertainment destination. \n";

cout << "The city of Taguig's zip code is 1208 \n";

cout << "According to 2020 census, its total population is 886,722 \n";

cout << "Here are all the barangays in : \n";

break;

}

case 16:{

cout << "You have chosen the city of Valenzuela \n";

cout << "Mayor: Wes Gatchalian \n";

cout << "Valenzuela city is a highly urbanized, first-class city based on income classification and number of population. The City of Valenzuela is known as the 'Northern Gateway to Metro Manila' due to two major highways traversing it to the MacArthur Highway and the North Luzon Expressway.\n";

cout << "The city of Valenzuala's zip code is 1440 \n";

cout << "According to 2020 census, its total population is 714,978 \n";

cout << "Here are all the barangays in : \n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in NCR: " << endl;

cout << "Pateros\n";

cout << "Would you like to find out more about Pateros? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

cout << "The municipality of Pateros \n";

cout << "Mayor: Miguel F. Ponce III \n";

cout << "Pateros, officially the Municipality of Pateros, is the lone municipality of Metro Manila. This municipality is famous for its duck-raising industry and especially for producing balut, a Filipino delicacy, which is a boiled, fertilized duck egg. Pateros is also known for the production of red salty eggs and inutak, a local rice cake. \n";

break;

}

}

break;

}

case 16: {

char prov;

char cmb;

cout << "CAR - Cordillera Administrative Region" << endl;

cout << "CAR or Cordillera Administrative Region is famous for its large forests and different kinds of minerals. It is also known as the Watershed Cradle of North Luzon because of the 9 rivers that provide a water source and energy of Northern Luzon." << endl;

cout << "It has a population of 1,797,660 people as of 2020.\n";

cout << "It has 6 provinces, 2 cities, 75 municipalities, and 1,178 barangays.\n";

cout << "Would you like to find out about the different provinces in CAR? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int car;

cout << "Here are all the provinces in the Cordillera Administrative Region:" << endl;

cout << "1. Abra\n";

cout << "2. Apayao\n";

cout << "3. Benguet\n";

cout << "4. Ifugao\n";

cout << "5. Kalinga\n";

cout << "6. Mountain Province\n";

cout << "Choose from 1-6 to find out more about the different provinces: ";

cin >> car;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (car == 1){

cout << "You have chosen Abra" << endl;

cout << "Abra has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

int muniCount = sizeof(AbraMuni)/sizeof(AbraMuni[0]);

char municipal;

cout << "Here are all the municipalities in Abra: " << endl;

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Bangued - Capital of Abra.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Boliney.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Bucay.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Bucloc.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Daguioman.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Danglas.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Dolores.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of La Paz.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Lacub.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Langailang.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Lagayan.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Langiden.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Licuan-Baay.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Luba.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Malibcong.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Manabo.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Penarrubia.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Pidigan.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Pilar.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Sallapadan.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of San Isidro.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of San Juan.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of San Quintin.\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Tayum.\n";

break;

}

case 25: {

cout << "You have chosen the municipality of Tineg.\n";

break;

}

case 26: {

cout << "You have chosen the municipality of Tubo.\n";

break;

}

case 27: {

cout << "You have chosen the municipality of Villaciviosa.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (car == 2){

cout << "You have chosen Apayao" << endl;

cout << "Apayao has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Apayao: " << endl;

cout << "1. Calanasan\n";

cout << "2. Conner\n";

cout << "3. Flora\n";

cout << "4. Kabugao - Capital of Apayao\n";

cout << "5. Luna\n";

cout << "6. Pudtol\n";

cout << "7. Santa Marcela\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Calanasan.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Conner.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Flora.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Kabugao.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Luna.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Pudtol.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Santa Marcela.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (car == 3){

cout << "You have chosen Benguet" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Benguet: " << endl;

cout << "Baguio - Highly Urbanized City and the Capital of Benguet and the Regional Center of CAR\n";

cout << "Would you like to find out more about Baguio and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(BaguioBrgys)/sizeof(BaguioBrgys[0]);

cout << "Mayor: Benjamin Magalong\n";

cout << "The City of Baguio is a 1st class highly urbanized city situated in Benguet. It is known for many things, like the Summer Capital of the Philippines because of its cool climate, and the City of Pines because of its many pine trees.\n";

cout << "The City of Baguio's ZIP code is 2600.\n";

cout << "According to the 2020 census, its total population is 366,358.\n";

cout << "Here are all the barangays in Baguio:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << BaguioBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Benguet: " << endl;

cout << "1. Bakun\n";

cout << "2. Bokod\n";

cout << "3. Buguias\n";

cout << "4. Itogon\n";

cout << "5. Kabayan\n";

cout << "6. Kapangan\n";

cout << "7. Kibungan\n";

cout << "8. La Trinidad - Capital of Benguet\n";

cout << "9. Mankayan\n";

cout << "10. Sablan\n";

cout << "11. Tuba\n";

cout << "12. Tublay\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Bakun.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Bokod.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Buguias.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Itogon.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Kabayan.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Kapangan.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Kibungan.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of La Trinidad - Capital of Benguet.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Mankayan.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Sablan.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Tuba.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Tublay.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (car == 4){

cout << "You have chosen Ifugao" << endl;

cout << "Ifugao has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Ifugao: " << endl;

cout << "1. Aguinaldo\n";

cout << "2. Alfonso Lista\n";

cout << "3. Asipulo\n";

cout << "4. Banaue\n";

cout << "5. Hingyon\n";

cout << "6. Hungduan\n";

cout << "7. Kiangan\n";

cout << "8. Lagawe - Capital of Ifugao\n";

cout << "9. Lamut\n";

cout << "10. Mayoyao\n";

cout << "11. Tinoc\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Aguinaldo.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Alfonso Lista.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Asipulo.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Banaue.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Hingyon.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Hungduan.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Kiangan.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Lagawe - Capital of Ifugao.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Lamut.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Mayoyao.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Tinoc.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (car == 5){

cout << "You have chosen Kalinga" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Kalinga: " << endl;

cout << "Tabuk - Capital of Kalinga\n";

cout << "Would you like to find out more about Tabuk and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(TabukBrgys)/sizeof(TabukBrgys[0]);

cout << "Mayor: Darwin C. Estranero\n";

cout << "The City of Tabuk is a 5th class component city and the capital of Kalinga. It is famous for its White Carabao Statute which symbolizes Tabuk's Farming glory. Tabuk is also known as Cordillera's Rice Granary.\n";

cout << "The City of Tabuk's ZIP code is 3800.\n";

cout << "According to the 2020 census, its total population is 121,033.\n";

cout << "Here are all the barangays in Tabuk:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << TabukBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Kalinga: " << endl;

cout << "1. Balbalan\n";

cout << "2. Lubuagan\n";

cout << "3. Pasil\n";

cout << "4. Pinukpuk\n";

cout << "5. Rizal\n";

cout << "6. Tanudan\n";

cout << "7. Tinglayan\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Balbalan.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Lubuagan.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Pasil.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Pinukpuk.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Rizal.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Tanudan.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Tinglayan.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (car == 6){

cout << "You have chosen Mountain Province." << endl;

cout << "Mountain Province has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Mountain Province: " << endl;

cout << "1. Barlig\n";

cout << "2. Bauko\n";

cout << "3. Besao\n";

cout << "4. Bontoc - Capital of Mountain Province\n";

cout << "5. Natonin\n";

cout << "6. Paracelis\n";

cout << "7. Sabangan\n";

cout << "8. Sadanga\n";

cout << "9. Sagada\n";

cout << "10. Tadian\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Barlig.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Bauko.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Besao.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Bontoc.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Natonin.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Paracelis.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Sabangan.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Sadanga.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Sagada.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Tadian.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

}

}

}

}

}

}

break;

}

case 17: {//COMPLETE

char prov;

char cmb;

cout << "BARMM - BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO" << endl;

cout << "BARMM or Bangsamoro Autonomous Region in Muslim Mindanao is the only region in the country that has its own government. They are known to be the People of the Current. Fisheries is the most important industry in BARMM." << endl;

cout << "It has a population of 4,404,288 as of 2020.\n";

cout << "It has 5 provinces, 3 cities, 116 municipalities, and 2,490 barangays.\n";

cout << "Would you like to find out about the different provinces in BARMM? (Y/N): ";

cin >> prov;

if (prov == 'Y' || prov == 'y'){

int barmm;

cout << "Here are all the provinces in BARMM: " << endl;

cout << "1. Basilan\n";

cout << "2. Lanao del Sur\n";

cout << "3. Maguindanao\n";

cout << "4. Sulu\n";

cout << "5. Tawi-Tawi\n";

cout << "Choose from 1-5 to find out more about the different provinces: ";

cin >> barmm;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

if (barmm == 1){

cout << "You have chosen Basilan. " << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Basilan: " << endl;

cout << "1. Isabela City - De facto Capital of Basilan\n";

cout << "2. Lamitan \n";

cout << "Would you like to find out more about the cities and the barangays within them? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangays;

cout << "Enter a number corresponding to a city to get information about it and its barangays: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1:{

cout << "You have chosen the city of \n";

cout << "Information about city\n";

cout << "Here are all the barangays in : \n";

break;

}

case 2:{

cout << "You have chosen the city of \n";

cout << "Information about city\n";

cout << "Here are all the barangays in : \n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

else if (cmb == 'M' || cmb == 'm'){

char municipal;

cout << "Here are all the municipalities in Basilan: " << endl;

cout << "1. Akbar\n";

cout << "2. Al-Barka\n";

cout << "3. Hadji Mohammad Ajul\n";

cout << "4. Hadji Muhtamad\n";

cout << "5. Lantawan\n";

cout << "6. Maluso\n";

cout << "7. Sumisip\n";

cout << "8. Tabuan-Lasa\n";

cout << "9. Tipo-Tipo\n";

cout << "10. Tuburan\n";

cout << "11. Ungkaya Pukan\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Akbar.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Al-Barka.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Hadji Mohammad Ajul.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Hadji Muhtamad.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Lantawan.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Maluso.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Sumisip.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Tabuan-Lasa.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Tipo-Tipo.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Tuburan.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Ungkaya Pukan.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (barmm == 2){

cout << "You have chosen Lanao del Sur" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Lanao del Sur: " << endl;

cout << "Marawi - Capital of Lanao del Sur\n";

cout << "Would you like to find out more about Marawi and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

int barangayCount = sizeof(MarawiBrgys)/sizeof(MarawiBrgys[0]);

cout << "Mayor: Majul Usman Gadamra\n";

cout << "The City of Marawi is a 4th class component city and the capital of Lanao del Sur. It is best known for the Battle of Marawi that span in the course of 5 months and is the longest urban warfare in the Philippines.\n";

cout << "The city of Marawi's ZIP code is 9700.\n";

cout << "According to the 2020 census, its total population is 207, 010.\n";

cout << "Here are all the barangays in Marawi:\n";

for (int i = 0; i < barangayCount; ++i) {

cout << i + 1 << ". " << MarawiBrgys[i] << "\n";

}

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(LanaoSurMuni)/sizeof(LanaoSurMuni[0]);

char municipal;

cout << "Here are all the municipalities in Lanao del Sur: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << LanaoSurMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Amai Manabilang.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Bacolod-Kalawi.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Balabagan.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Balindong.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Bayang.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Binidayan.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Buadiposo-Buntong.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Bubong.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Butig.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Calanogas.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Ditsaan-Ramain.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Ganassi.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Kapai.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Kapatagan.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Lumba-Bayabao.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Lumbaca-Unayan.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Lumbatan.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Lumbayanague.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Madalum.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Madamba.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Maguing.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Malabang.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Marantao.\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Marogong.\n";

break;

}

case 25: {

cout << "You have chosen the municipality of Masiu.\n";

break;

}

case 26: {

cout << "You have chosen the municipality of Mulondo.\n";

break;

}

case 27: {

cout << "You have chosen the municipality of Pagayawan.\n";

break;

}

case 28: {

cout << "You have chosen the municipality of Piagapo.\n";

break;

}

case 29: {

cout << "You have chosen the municipality of Picong.\n";

break;

}

case 30: {

cout << "You have chosen the municipality of Poona Bayabao.\n";

break;

}

case 31: {

cout << "You have chosen the municipality of Pualas.\n";

break;

}

case 32: {

cout << "You have chosen the municipality of Saguiaran.\n";

break;

}

case 33: {

cout << "You have chosen the municipality of Sultan Dumalondong.\n";

break;

}

case 34: {

cout << "You have chosen the municipality of Tagoloan II.\n";

break;

}

case 35: {

cout << "You have chosen the municipality of Tamparan.\n";

break;

}

case 36: {

cout << "You have chosen the municipality of Taraka.\n";

break;

}

case 37: {

cout << "You have chosen the municipality of Tubaran.\n";

break;

}

case 38: {

cout << "You have chosen the municipality of Tugaya.\n";

break;

}

case 39: {

cout << "You have chosen the municipality of Wao.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (barmm == 3){

cout << "You have chosen Maguindanao" << endl;

cout << "Would you like to find out about the cities or municipalities? Choose from C or M or N to find out about other regions: ";

cin >> cmb;

if (cmb == 'C' || cmb == 'c'){

char citybarangays;

cout << "Here are all the cities in Maguindanao: " << endl;

cout << "Cotabato City - Independent Component City and Regional Center of BARMM\n";

cout << "Would you like to find out more about Cotabato City and the barangays within it? (Y/N): ";

cin >> citybarangays;

if (citybarangays == 'Y' || citybarangays == 'y'){

cout << "Mayor: Frances Cynthia Guiani-Sayadi\n";

cout << "Cotabato City is a 1st class independent component city situated in BARMM. Cotabato City is the primary trade and commercial centre for southwestern Mindanao.\n";

cout << "The city of Cotabato’s ZIP code is 9600.\n";

cout << "According to the 2020 census, its total population is 325,079.\n";

cout << "Here are all the barangays in Cotabato City:\n";

}

}

else if (cmb == 'M' || cmb == 'm'){

int muniCount = sizeof(MaguindanaoMuni)/sizeof(MaguindanaoMuni[0]);

char municipal;

cout << "Here are all the municipalities in Maguindanao: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << MaguindanaoMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Ampatuan.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Barira.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Buldon.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Buluan.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Datu Abdullah Sangki.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Datu Anggal Midtimbang.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Datu Blah T. Sinsuat.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Datu Hoffer Ampatuan.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Datu Montawal.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Datu Odin Sinsuat.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Datu Paglas.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Datu Piang.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Datu Salibo.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Datu Saudi-Ampatuan.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Datu Unsay.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of General Salipada K. Pendatun.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Guindulungan.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Kabuntalan.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Mamasapano.\n";

break;

}

case 20: {

cout << "You have chosen the municipality of Mangudadatu.\n";

break;

}

case 21: {

cout << "You have chosen the municipality of Matanog.\n";

break;

}

case 22: {

cout << "You have chosen the municipality of Northern Kabuntalan.\n";

break;

}

case 23: {

cout << "You have chosen the municipality of Pagalungan.\n";

break;

}

case 24: {

cout << "You have chosen the municipality of Paglat.\n";

break;

}

case 25: {

cout << "You have chosen the municipality of Pandag.\n";

break;

}

case 26: {

cout << "You have chosen the municipality of Parang.\n";

break;

}

case 27: {

cout << "You have chosen the municipality of Rajah Buayan.\n";

break;

}

case 28: {

cout << "You have chosen the municipality of Shariff Aguak.\n";

break;

}

case 29: {

cout << "You have chosen the municipality of Shariff Saydona Mustapaha.\n";

break;

}

case 30: {

cout << "You have chosen the municipality of South Upi.\n";

break;

}

case 31: {

cout << "You have chosen the municipality of Sultan Kudarat.\n";

break;

}

case 32: {

cout << "You have chosen the municipality of Sultan Mastura.\n";

break;

}

case 33: {

cout << "You have chosen the municipality of Sultan sa Barongis.\n";

break;

}

case 34: {

cout << "You have chosen the municipality of Sultan Sumagka.\n";

break;

}

case 35: {

cout << "You have chosen the municipality of Talayan.\n";

break;

}

case 36: {

cout << "You have chosen the municipality of Upi.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (barmm == 4){

cout << "You have chosen Sulu" << endl;

cout << "Sulu has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

int muniCount = sizeof(SuluMuni)/sizeof(SuluMuni[0]);

char municipal;

cout << "Here are all the municipalities in Sulu: " << endl;

for (int i = 0; i < muniCount; ++i) {

cout << i + 1 << ". " << SuluMuni[i] << "\n";

}

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Banguingui.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Hadji Panglima Tahil.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Indanan.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Jolo.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Kalingalan Caluang.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Lugus.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Luuk.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Maimbung.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of Old Panamao.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Omar.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Pandami.\n";

break;

}

case 12: {

cout << "You have chosen the municipality of Panglima Estino.\n";

break;

}

case 13: {

cout << "You have chosen the municipality of Pangutaran.\n";

break;

}

case 14: {

cout << "You have chosen the municipality of Parang.\n";

break;

}

case 15: {

cout << "You have chosen the municipality of Pata.\n";

break;

}

case 16: {

cout << "You have chosen the municipality of Patikul.\n";

break;

}

case 17: {

cout << "You have chosen the municipality of Siasi.\n";

break;

}

case 18: {

cout << "You have chosen the municipality of Talipao.\n";

break;

}

case 19: {

cout << "You have chosen the municipality of Tapul.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

else if (barmm == 5){

cout << "You have chosen Tawi-Tawi" << endl;

cout << "Tawi-Tawi has no cities, would you like to find out about the municipalities? (Y/N): ";

cin >> cmb;

if (cmb == 'Y' || cmb == 'y'){

char municipal;

cout << "Here are all the municipalities in Tawi-Tawi: " << endl;

cout << "1. Bongao - Capital of Tawi-Tawi\n";

cout << "2. Languyan\n";

cout << "3. Mapun\n";

cout << "4. Panglima Sugala\n";

cout << "5. Sapa-Sapa\n";

cout << "6. Sibutu\n";

cout << "7. Simunul\n";

cout << "8. Sitangkai\n";

cout << "9. South Ubian\n";

cout << "10. Tandubas\n";

cout << "11. Turtle Islands\n";

cout << "Would you like to find out more about the municipalities? (Y/N): ";

cin >> municipal;

if (municipal == 'Y' || municipal == 'y'){

int barangays;

cout << "Enter a number corresponding to a municipality to get information about it: ";

cin >> barangays;

if (cin.fail()) {

cin.clear();

cin.ignore(numeric\_limits<streamsize>::max(), '\n');

cout << "INVALID INPUT. NUMERICAL VALUES ONLY.\n ";}

switch (barangays){

case 1: {

cout << "You have chosen the municipality of Bongao - Capital of Tawi-Tawi.\n";

break;

}

case 2: {

cout << "You have chosen the municipality of Languyan.\n";

break;

}

case 3: {

cout << "You have chosen the municipality of Mapun.\n";

break;

}

case 4: {

cout << "You have chosen the municipality of Panglima Sugala.\n";

break;

}

case 5: {

cout << "You have chosen the municipality of Sapa-Sapa.\n";

break;

}

case 6: {

cout << "You have chosen the municipality of Sibutu.\n";

break;

}

case 7: {

cout << "You have chosen the municipality of Simunul.\n";

break;

}

case 8: {

cout << "You have chosen the municipality of Sitangkai.\n";

break;

}

case 9: {

cout << "You have chosen the municipality of South Ubian.\n";

break;

}

case 10: {

cout << "You have chosen the municipality of Tandubas.\n";

break;

}

case 11: {

cout << "You have chosen the municipality of Turtle Islands.\n";

break;

}

default:{

cout << "CORRESPONDING NUMBER NOT FOUND.\n";

break;

}

}

}

}

}

}

break;

}

}

} while (info == 'Y' || info == 'y');

}

}//IFCHOOSE=Y

else {

cout << "Would you like to rerun the program? (Y/N) ";

cin >> decision1;

cin.ignore();

if (decision1 != 'Y' && decision1 != 'y'){

continue;

}

}

cout << "Would you like to find about something different? (Y/N): ";

cin >> decision2;

cin.ignore();

} while (decision2 == 'Y' || decision2 == 'y');

cout << "Thank you for using The Geographical Information System of the Philippines!";

return 0;

}

**APPENDIX C**

**Curriculum Vitae**