

### Program:

```
#include <iostream>
#include <map>
#include <string>
#include <iomanip>
using namespace std;

int main()
{
    map<string, bool> symptoms;
    symptoms["fever"] = false; symptoms["sweating"] = false;
    symptoms["headache"] = false; symptoms["nausea"] = false;
    symptoms["vomiting"] = false; symptoms["diarrhea"] = false;
    symptoms["runny_nose"] = false; symptoms["conjunctivitis"] = false;
    symptoms["body_ache"] = false; symptoms["poor_appetite"] = false;
    symptoms["abdominal_pain"] = false; symptoms["chills"] = false;
    symptoms["sore_throat"] = false; symptoms["sneezing"] = false;
    symptoms["rash"] = false;
    char ans = ' ';

    for (auto i = symptoms.begin(); i != symptoms.end(); i++)
    {
        cout << "Does the patient have:(y/n)\t" << setw(15) << i->first << "\t" << setw(4) << " - ";
        cin >> ans;
        if (ans == 'Y' || ans == 'y')
            i->second = true;
    }
    cout << "\n\n Expert's Suggestion \n";
    if (symptoms["fever"] && symptoms["sweating"] && symptoms["headache"] &&
        symptoms["nausea"] && symptoms["vomiting"] && symptoms["diarrhea"])
    {
        cout << "Patient has the symptoms for \'Malaria\' \n";
        cout << "Patient is advised not to sleep in open air and cover your full skin\n";
        cout << "Patient can take these medicines only on consulting doctor : Aralen, Qualaquin,
Plaquenil, Mefloquine \n\n";
    }
    else if (symptoms["fever"] && symptoms["sore_throat"] && symptoms["headache"] &&
        symptoms["chills"] && symptoms["body_ache"])
    {
        cout << "Patient has the symptoms for \'Influenza\' \n";
        cout << "Patient is advised to take a warm bath and do salt gargling\n";
        cout << "Patient can take these medicines only on consulting doctor : Tamiflu, Panadol,
Zanamivir \n\n";
    }
    else if (symptoms["runny_nose"] && symptoms["sore_throat"] && symptoms["headache"] &&
        symptoms["sneezing"])
    {
        cout << "Patient has the symptoms for \'Cold\' \n";
        cout << "Patient is advised to wear warm cloths\n";
        cout << "Patient can take these medicines only on consulting doctor : Tylenol, Panadol, Nasal
spray \n\n";
    }
}
```

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    }
    else if (symptoms["abdominal_pain"] && symptoms["poor_appetite"] && symptoms["headache"]
    && symptoms["fever"])
    {
        cout << "Patient has the symptoms for 'Typhoid' \n";
        cout << "Patient is advised to do complete bed rest and take soft diet\n";
        cout << "Patient can take these medicines only on consulting doctor : Chloramphenicol,
Amoxicillin, Ciprofloxacin, Azithromycin \n\n";
    }
    else if (symptoms["runny_nose"] && symptoms["rash"] && symptoms["conjunctivities"] &&
symptoms["fever"])
    {
        cout << "Patient has the symptoms for 'Measles'\n";
        cout << "Patient is advised to get rest and use more liquid\n";
        cout << "Patient can take these medicines only on consulting doctor : Tylenol, Aleve, Advil,
Vitamin A \n\n";
    }
    else if (symptoms["body_ache"] && symptoms["rash"] && symptoms["fever"])
    {
        cout << "Patient has the symptoms for 'Chicken pox'\n";
        cout << "Patient is advised to have oatmeal bath and stay at home\n";
        cout << "Patient can take these medicines only on consulting doctor : Varicella vaccine,
Immunoglobulin, Acetomenaphin, Acyclovir \n\n";
    }
    else
    {
        cout << "Unable to identify the disease from given symptoms\n\n";
    }
}

return 0;
}

```

### Output:

```

Does the patient have:(y/n)      abdominal_pain      - n
Does the patient have:(y/n)      body_ache          - n
Does the patient have:(y/n)      chills              - n
Does the patient have:(y/n)      conjunctivities    - n
Does the patient have:(y/n)      diarrhea            - y
Does the patient have:(y/n)      fever               - y
Does the patient have:(y/n)      headache            - y
Does the patient have:(y/n)      .      nausea          - y
Does the patient have:(y/n)      poor_appetite     - n
Does the patient have:(y/n)      rash               - n
Does the patient have:(y/n)      runny_nose         - n
Does the patient have:(y/n)      sneezing           - n
Does the patient have:(y/n)      sore_throat        - n
Does the patient have:(y/n)      sweating           - y
Does the patient have:(y/n)      vomiting           - y

Expert's Suggestion
Patient has the symptoms for 'Malaria'
Patient is advised not to sleep in open air and cover your full skin
Patient can take these medicines only on consulting doctor : Aralen, Qualaquin, Plaquenil, Mefloquine

```