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```
bool parseModelNumber(const string& modelnumber, string& model, string& port, bool&
 stacking) {
     stringstream ss(modelnumber);
     string part;
     vector< string> parts;
    while ( getline(ss, part, '-')) {
         parts.push_back(part);
    if (parts.size() < 2 | | !isdigit(parts[1][0])) {</pre>
         return false;
    model = "";
    for (char c : parts[0]) {
         if (isdigit(c)) {
             model += c;
    }
    port = "";
    for (char c : parts[1]) {
         if (isdigit(c)) {
             port += c;
    stacking = (modelnumber.find("S") != string::npos) || (modelnumber.find("NX") !
  string::npos);
    return true;
}
void classifySwitch(const string& modelnumber) {
     string model, port;
    bool stacking;
    if (!parseModelNumber(modelnumber, model, port, stacking)) {
          cout << "Invalid model number" << endl;</pre>
         return;
    if ((model == "5200" || model == "5250" || model == "5270") && stoi(port) <= 24)
          cout << port << endl;</pre>
          cout << "Type 1" << endl;</pre>
} else if ((model == "5200" || model == "5250" || model == "5270" || model == "5300" || model == "5350" || model == "5370") && stoi(port) > 24 && model.find("5400")
 == string::npos) {
          cout << port << endl;</pre>
          cout << "Type 2" << endl;</pre>
    } else if (stacking) {
    cout << port << endl;</pre>
          cout << "Core" << endl;</pre>
    } else {
          cout << "Invalid model number" << endl;</pre>
}
```