**#Team Names:**

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**Summary**:

The switch is used to connect the computers with each other, and we can divide the network into smaller networks by using the “vlan”, Each switch contains 16 ports so that it takes the largest number of devices available, and every switch is connected with multilayer switch.

One of the advantages of dividing the network, which is “vlan”, will be more security and its price will be cheaper.

And we have also ‘2 access point’ in each floor to distribute network in all over the floor so that you can connect to network from any direction.

Also, we have a main switch that connect with all floors, each floor contains with main switch and branch out with one switch to each room.

A router we used in our network that help us to connect between ips or subnetworks and convert Lan to wan.

And each floor contains one printer.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Device name | Model | Quantity | Price | Total price | Reference (the link we got the price from) |
| Tenda access point | FH303+ Wireless N300 High Power Router +W311M Wireless N150 | **8** | 1,450 | 11,600 | <https://bit.ly/3WHvZG1> |
| Linksys WRT Smart Router | 1900AC Wireless AC Dual Band | **1** | 9,955 | 9,955 | <https://bit.ly/3C2dZOF> |
| Tp-link switch | TLSF1016D 16-Port | **18** | 1327 | 23,886 | <https://tinyurl.com/yc7cmwmy> |
| Moxa switch | EDS-316-t | **1** | 14,928 | 14,928 | <https://bit.ly/3I1R6Pk> |
| Hp deskjet printer | 2320 All-in-one | **4** | 1,499 | 5,996 | <https://tinyurl.com/38x2xmmm> |
| All devices | ---- | **32** | ----- | **66,365** | ---------- |