Vector of Vector

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Suppose you wish to create a matrix:-
Ram
      Shyam Sam
Hari Gopal Tim
Then you need to do the following things:-
vector <vector <string> > v1;
vector <string> v2;
v2.push_back("Ram");
v2.push_back("Shyam");
v2.push_back("Sam");
v1.push_back(v2);
v2.clear();
v2.push_back("Hari");
v2.push_back("Gopal");
v2.push_back("Tim");
v1.push_back(v2);
Now if you want to print the matrix:-
for(int i=0;i<v1.size();i++){</pre>
   for(int j=0;j<v2.size();j++){</pre>
      cout << v1[i][j] << " ";
   cout<<endl;
}
Alternative way of declaration:-
vector <string> v2(3);
vector <vector <string> > v1(2,v2);
v2[0] = "Ram"
v2[1] = "Shyam";
v2[2] = "Sam";
v1[0] = v2;
v2[0] = "Hari" ;
v2[1] = "Gopal";
v2[2] = "Tim";
v1[1] = v2;;
for(int i=0;i<v1.size();i++){</pre>
   for(int j=0;j<v2.size();j++){</pre>
      cout << v1[i][j] << " ";
   }
   cout << end1;
}
```